



AYUSH N SHETTY

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PROFILE SUMMARY

Software Engineer | Backend • AI • Full-Stack • Platform Engineering

I build production software, AI-powered applications, backend systems, and developer tools. Passionate about scalable architecture, automation, distributed systems and solving real-world problems through engineering.

EDUCATION

2022 - 2026

NMAM INSTITUTE OF TECHNOLOGY

- BTech in Information Science

AREAS OF EXPERTISE

- Backend Engineering
- AI Infrastructure
- Distributed Systems
- Platform Engineering
- Full-Stack Development
- Developer Tooling
- Cloud Applications

LANGUAGES

- English: Fluent
- Hindi: Fluent
- Kannada: Fluent
- Tulu: Fluent
- Japanese: Basic (Certified)

PROFESSIONAL INTERESTS

- Backend Engineering
- AI Systems
- Platform Engineering
- Developer Infrastructure
- Distributed Systems

EXPERIENCE

Avarch LLC | USA

2025 - 2026

Product Engineer Intern

- Developed and shipped production-ready features across React/Next.js applications and backend-integrated systems.
- Designed and integrated REST APIs, improving application functionality and maintainability.
- Collaborated with cross-functional teams on architecture, deployments and product delivery.

Metaqube | Web3Events

2026

Operations & Strategy Intern

- Supporting operations and strategy initiatives across Web3 events, including event execution, partnerships and workflow optimization to improve coordination and delivery.

SELECTED PROJECTS

- **Local AI Infrastructure** - Built a distributed local AI environment using Ollama, Docker, and Playwright.
- **EIPsInsight** - Analytics platform for Ethereum Improvement Proposals (EIPs), featuring contributor insights and governance dashboards.
- **Eth.Ed** - Learn-to-earn Web3 education platform with wallet authentication and blockchain credentials.
- **Facial KeyGen** - Biometric authentication system using MediaPipe and computer vision for deterministic key generation.

TECHNICAL SKILLS

- **Languages:** Python, TypeScript, JavaScript, SQL
- **Frameworks:** React, Next.js, Node.js
- **Backend:** REST APIs, PostgreSQL, MongoDB
- **DevOps:** Docker, Git, CI/CD
- **AI:** Ollama, Playwright, Open WebUI

PROFESSIONAL EXPERIENCE

Avarch LLC | USA (Remote)

SEP 2025 - MAY 2026

Product Engineer Intern

React • Next.js • TypeScript • Python • PostgreSQL • REST APIs

- Developed and shipped production-ready features for EIPsInsight using React, Next.js and TypeScript.
- Designed and integrated REST APIs for backend services and analytics workflows.
- Built dashboards and reporting modules for Ethereum governance analytics.
- Collaborated with product and engineering teams on architecture, deployments and feature delivery.
- Debugged production issues, optimized application workflows and improved maintainability.
- Contributed to product planning, testing and release cycles.

Avarch LLC | USA (Remote)

FEB 2023 - SEP 2025

Product Operations & Marketing Intern

- Managed product marketing, social media strategy, and community engagement across Avarch products.
- Represented Avarch and its products at industry conferences, Web3 events, and community meetups.
- Contributed to product positioning, UI/UX ideation, documentation, and launch campaigns.
- Worked closely with founders on external communications, partnerships, and product growth initiatives.
- Authored 250+ technical articles for EtherWorld, covering Ethereum upgrades, EIPs, Layer 2 ecosystems, DeFi, governance, and emerging Web3 technologies.
- Simplified complex blockchain concepts into developer-friendly and beginner-accessible technical content, contributing to EtherWorld's educational resources.

Khel.Fun

NOV 2025 - JAN 2026

Software Engineering Intern

React • TypeScript • Python

- Contributed to the development and testing of Web3 gaming applications and platform features.
- Tested game mechanics, user flows and application stability, identifying bugs and improving the overall user experience.
- Collaborated with the team to brainstorm and evaluate ideas for new competitive game modes and platform features.
- Represented Khel.fun at Web3 events, engaging with users, showcasing the platform and gathering community feedback.
- Worked with the product team translating user insights into feature discussions and product improvements.

MetaCube

FEB 2026 - MAY 2026

Strategies & Operations

- Coordinated event operations and execution for Web3 initiatives.
- Managed partnerships, logistics and stakeholder communication.
- Streamlined operational workflows across multiple events.
- Worked with internal teams to improve planning and delivery.

Operations & Strategy Associate

- Represented the organization at blockchain conferences and community events.
- Assisted with strategic partnerships and event planning.
- Supported business development and community growth initiatives.
- Collaborated with founders on operational execution.

Freelance Software Engineer**JAN 2026 - PRESENT****Operations & Strategy Associate**

Client: ReLike Vibes(3M+ subscribers)

- Designed and developed custom software tools to automate repetitive production workflows and improve operational efficiency.
- Built internal automation solutions tailored to the client's content creation pipeline, reducing manual effort and streamlining day-to-day processes.
- Worked directly with the client to gather requirements, iterate on features, and deliver solutions based on real-world feedback.
- Continue to maintain, improve, and support the software through ongoing feature enhancements and bug fixes.

ENGINEERING PROJECTS

Local AI Infrastructure**Private AI infrastructure for autonomous workflows, browser automation, and local LLM inference.***Python • Docker • Ollama • Open WebUI • Playwright • Tailscale • SSH • VS Code Remote • Linux*

- Designed and built a privacy-first local AI infrastructure capable of running multiple large language models, browser automation and remote development workflows across several devices. The system enables autonomous task execution while keeping all inference on local hardware.
- Designed a Docker-based AI environment supporting multiple self-hosted LLMs.
- Integrated Playwright for browser automation and autonomous workflows.
- Built remote development infrastructure using SSH and Tailscale.
- Optimized local inference for NVIDIA RTX hardware.
- Configured Open WebUI for multi-model management.
- Developed reusable automation pipelines for development tasks.

EIPsInsight Academy | <https://academy.eipsinsight.com>**AI-powered Web3 learning platform combining personalized education, wallet-based authentication, and verifiable blockchain credentials.***Next.js • React • TypeScript • Tailwind CSS • Python • AI • Ethereum • SIWE • Wagmi • Solidity**Role: Lead Developer**Duration: DEC 2025 - JAN 2026**Team Size: Solo**Status: Active Development*

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- Designed and developed a Web3 education platform that reimagines blockchain learning through AI-powered tutoring, interactive learning paths, wallet authentication and verifiable on-chain achievements. The platform aims to reduce onboarding friction while providing structured, practical education for developers and newcomers alike.
 - Built a modern full-stack learning platform using Next.js and TypeScript.
 - Designed an AI-assisted tutoring experience for personalized learning.
 - Implemented wallet authentication using Sign-In with Ethereum (SIWE).
 - Integrated blockchain-backed certificates and verifiable achievements.
 - Developed modular dashboards for learners, courses and progress tracking.
 - Focused on scalable architecture and intuitive user experience.

FACIAL KEYGEN - A SECURITY PROJECT

Biometric cryptographic key generation using facial landmark analysis and computer vision.

Python • OpenCV • MediaPipe • NumPy • Computer Vision

Role: Lead Developer

Duration: 2025 - 2026

Team Size: Solo

Status: Research Prototype

- Developed a biometric authentication research system capable of generating deterministic cryptographic keys from facial geometry. The project combines facial landmark extraction with feature engineering to explore secure, repeatable biometric key generation.
- Built facial landmark extraction pipeline using MediaPipe.
- Engineered biometric feature vectors from facial geometry.
- Generated over 100,000 candidate cryptographic keys for evaluation.
- Evaluated key consistency across multiple facial captures.
- Explored deterministic biometric authentication techniques.

AIRGESTURE

Vision-based gesture recognition system for touchless classroom interaction.

Python • OpenCV • MediaPipe

Role: Lead Developer

Duration: SEP 2025

Team Size: Solo

- Developed a real-time gesture recognition system enabling presenters to interact with digital content through hand gestures, eliminating the need for traditional presentation devices.
- Implemented real-time hand tracking.
- Developed gesture recognition algorithms.
- Built cursor control and presentation navigation.
- Reduced interaction latency through optimized processing.
- Designed adaptive calibration for different users.

ETHERWORLD iOS

Native iOS application bringing Ethereum news and educational resources to mobile devices.

Swift • SwiftUI • iOS

Role: iOS Developer

Duration: DEC 2025 - FEB 2026

Team Size: Solo

- Designed and developed a native iOS application delivering Ethereum news, educational content and ecosystem updates through a mobile-first experience.
- Developed native SwiftUI interface.
- Built responsive layouts for iPhone devices.
- Integrated content delivery workflows.
- Optimized performance for mobile usage.

EIPSINSIGHT (UI/UX)

Ethereum governance analytics platform providing insights into Ethereum Improvement Proposals and protocol evolution.

Next.js • React • TypeScript • PostgreSQL • Tailwind CSS • Ethereum APIs

Role: Product Engineer

Duration: 2024-2026

Team Size: Team

- Contributed to the development of EIPsInsight, a production platform that makes Ethereum Improvement Proposals more accessible through analytics, dashboards, search capabilities, and governance insights for developers and researchers.
- Developed and shipped production-ready frontend features using React, Next.js, and TypeScript.
- Built analytics dashboards, proposal visualizations, and search experiences for Ethereum governance data.
- Integrated backend APIs and optimized data presentation for large datasets.
- Collaborated with maintainers on feature planning, code reviews, testing, and deployment.
- Contributed extensively to the production codebase through 100+ commits, participating in feature development, refactoring, and ongoing platform improvements.

PORTFOLIO

A high-performance developer portfolio showcasing engineering projects through interactive storytelling and modern web technologies.

Next.js • React • Three.js • TypeScript • Tailwind CSS • GSAP

Role: Designer & Developer

Duration: 2026

Team Size: Solo

- Designed and developed a portfolio focused on demonstrating engineering capability rather than simply displaying projects. The site emphasizes storytelling, technical depth, performance, and interactive experiences.
- Designed the complete user experience and visual identity.
- Built reusable component architecture.
- Integrated smooth animations and modern interactions.
- Optimized performance, accessibility, and responsiveness.

LEADERSHIP, COMMUNITY & CAMPUS ENGAGEMENT

COPE – Counselling & Outreach for Peer Empowerment (2023–2026)

Advisor (2025–2026)

- Continued mentoring the executive committee and peer supporters.
- Provided guidance on organizational planning, member development, and student outreach initiatives.

President (2024–2025)

- Led one of NMAMIT's largest student-led mental health initiatives.
- Managed executive members, volunteers, recruitment, training and community outreach.
- Organized awareness campaigns, workshops, peer-support activities and inter-club collaborations.
- Coordinated with university administration and external organizations to expand student well-being initiatives.

Vice President (2023–2024)

- Founding executive member of the first COPE chapter at NMAMIT under the **Aditya Birla Education Trust** initiative.
- Helped establish organizational structure, recruit volunteers, and launch campus-wide mental health programs.

Soft Skills & Communication Association (SACA)

Executive Member | ERP Team Lead (2023–2026)

- Selected as one of the trainers responsible for preparing placement batches.
- Mentored multiple student cohorts in communication, public speaking, interview preparation and professional development.
- Conducted training sessions to improve confidence and workplace communication skills.

Google Developer Student Club (GDSC)

Publicity Head (2023–2024)

- Managed promotional campaigns, student engagement, and community outreach for technical events and workshops.

HackerEarth

Social Media Lead (2023–2024)

- Managed promotional campaigns, student engagement, and community outreach for technical events and workshops.

Club Rachana

Artist & Social Media Lead (2022–2025)

- Contributed artwork, murals, graffiti, sketches, and event branding for university festivals and official events.
- Participated in the creation of the inaugural Unified Summit mural.
- Managed the club's social media presence and promotional activities.
- Designed creative assets supporting university-wide events and campaigns.

Kalanjali Contemporary Dance Club

Core Team Member

- Assisted in organizing cultural performances and student engagement activities.

Incridea

Core Publicity Member (2023-2025)

- Represented NMAMIT across universities in Bengaluru to promote the institution's flagship technical festival.
- Coordinated outreach with students, faculty members, and institutional representatives.
- Helped strengthen participation and partnerships through direct engagement.

Sports & Extracurricular Activities

University Sports Representative

- Represented ISE & NMAMIT in basketball and other sporting events.
- Participated in intercollegiate competitions while balancing academic, leadership, and technical commitments.

HIGHLIGHTS

EtherWorld - Technical Writer (2023-2026)

Topics Covered: Ethereum • EIPs • Layer 2 • Rollups • DeFi • DAOs • MEV • Staking • Protocol Governance

- Authored 250+ technical articles covering Ethereum protocol upgrades, EIPs, Layer 2 ecosystems, DeFi, staking, governance and decentralized applications.
- Researched and translated complex blockchain concepts into accessible educational content for developers and the wider community.
- Interviewed ecosystem contributors and produced technical summaries, event coverage, and protocol explainers.
- Contributed to EtherWorld's content strategy and educational initiatives.

Representative & Community Contributor

Represented organizations including Avarch, EtherWorld, Khel.fun, and Web3 Events at major blockchain conferences and community gatherings, including:

- ETHMumbai
- India Blockchain Week
- ENS × PizzaDAO Global Pizza Day
- Ethereum community meetups
- Web3 networking events

Contributed through product demonstrations, community engagement, ecosystem education, and partnership discussions.

DIGITAL PORTFOLIO & PROFESSIONAL PRESENCE

Portfolio

- **Home:** <https://ayushetty.me>
- **Projects:** <https://ayushetty.me/projects>
- **Certifications:** <https://ayushetty.me/certifications>
- **Achievements & Awards:** <https://ayushetty.me/achievements>
- **Conference & Community Gallery:** <https://ayushetty.me/gallery>

Open Source

- **GitHub:** <https://github.com/AyuShetty>
- **EIPsInsight:** <https://github.com/AvarchLLC/EIPsInsight/commits?author=AyuShetty>
- **EtherWorld_IOS:** https://github.com/AvarchLLC/EtherWorld_App/commits?author=ayushetty-mod
- **EIPsInsight Academy:** <https://github.com/AvarchLLC/ethed/commits?author=ayushetty-mod>

Professional Profiles

- **LinkedIn:** <https://www.linkedin.com/in/ayushetty/>
- **X (Twitter):** x.com/ayushettyeth
- **EtherWorld Author Profile:** <https://etherworld.co/author/ayushetty/>