



AYUSH N SHETTY

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PROFILE SUMMARY

Software Engineer with experience building production software, data-driven platforms and backend systems using Python, SQL and REST APIs. Skilled in developing scalable automation workflows, backend integrations and distributed systems with hands-on experience in AI-assisted engineering, data processing and cloud-native development. Passionate about data engineering, platform engineering and building reliable software at scale.

EDUCATION

2022 - 2026

NMAM INSTITUTE OF TECHNOLOGY

- BTech in Information Science

CORE COMPETENCIES

- Backend Development
- Data Engineering
- Distributed Systems
- Workflow Automation
- AI Infrastructure
- System Design
- AGILE

TECHNICAL SKILLS

- Python, SQL, Docker, TypeScript, JS
- PostgreSQL, MongoDB, Firebase
- REST APIs, Authentication
- Git, CI/CD, Vercel, Azure (Basics)
- Application Architecture
- Distributed Systems & Workflow Orchestration
- Data Processing & Automation Tools
- React, Next.js, TailwindCSS

LANGUAGES

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

EXPERIENCE

Avarch LLC | Avarch, USA

2025 - 2026

Product Engineer Intern

- Developed and shipped production features across backend-integrated systems, REST APIs and scalable web applications.
- Built automation workflows and debugging solutions to improve system reliability and engineering productivity.
- Collaborated with teams on product architecture, backend integrations and production deployments.

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.

PROJECTS

- **Local AI Agent Infrastructure:** Built a distributed AI workflow platform using Python, Ollama, Docker and Playwright for local LLM orchestration, workflow automation and multi-system task execution.
- **Facial KeyGen cryptographic System:** Developed a Python-based biometric key generation system using computer vision and machine learning to explore secure authentication approaches for post-quantum computing environments.
- **AirGesture:** Designed and developed a Python application using MediaPipe and OpenCV that translated hand gestures into presentation controls, reducing dependence on physical devices and enabling a smoother teaching experience.
- **EIPsInsight.com (v2.0):** Built scalable analytics and data visualization workflows with integrated feedback systems, structured data processing and backend-driven reporting features.
- **EIPsInsight Academy (Eth.Ed):** Architected and built from scratch, secure authentication, scalable learning platform, API workflows, data flow, backend integration

LEADERSHIP & COMMUNITY

COPE NMAMIT | President

2025 - 2026

- Led a 25+ member student mental health organization, coordinating initiatives, events and campus-wide outreach programs.
- Managed cross-functional teams, partnerships and event execution while promoting student well-being.

COPE NMAMIT | Vice - President

2024 - 2025

- Supported organizational strategy, volunteer management and community engagement before transitioning into the President role.

Diya Ghar Internship

2024 - 2025

- Contributed to educational and community development initiatives by mentoring children, supporting learning activities and collaborating with volunteers to create an engaging and inclusive environment.

Campus Leadership & Community

2022 - 2026

- Held leadership positions across 10+ university organizations including **Google Developers Club NMAMIT**, **Computer Science Society of India NMAMIT**, **Club Rachana and Vista**, leading branding, technical event promotions and student engagement initiatives.
- Managed social media campaigns, event publicity and cross-club collaboration for technical and cultural events.

Professional Community

- MetaMask Ambassador
- Web3Events Operations & Strategy
- EtherWorld Contributor

ACHIEVEMENTS

- Led COPE NMAMIT during award-winning initiatives focused on student mental health and peer support.
 - Published 250+ technical articles on Ethereum, blockchain infrastructure and protocol development.
 - Contributed to products supported through the Ethereum Ecosystem Support Program (ESP).
 - Built multiple production software products and AI systems spanning backend engineering, distributed workflows and computer vision.
 - Led cross-functional teams across university organizations, technical communities and product initiatives.
 - Balanced professional product engineering responsibilities with leadership roles across university organizations, demonstrating ownership, collaboration and execution in both technical and organizational environments.
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