

Pradeep Shelke

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Education

Bachelor of Computer Science and Engineering

MGM University's Jawaharlal Nehru Engineering College, India
Oct 2020 – Jun 2024

Work Experience

Research Associate – Software Engineer (Full Stack)

ApTSi (Applied Technology Solutions, Inc.), Lexington, Massachusetts, USA. Remunance (PEO)
Jul 2024 – Present

- Developed and maintained scalable single-page applications using the **PEAN stack**, following **MVC architecture** for modularity and maintainability.
- Implemented core features including pagination, reusable shared components, complex form workflows, and middle-tier configuration logic with staging database integration.
- Contributed to enterprise security products including **Asset Management**, **Digital Identity**, **Adaptive Access Control**, and **Data Protection**, aligned with **Zero Trust Architecture** (The Open Group reference model).
- Designed and refined user interfaces and workflows using **Figma**, improving usability and developer-product alignment.
- Supported **cloud deployments** and **CI/CD pipelines**, improving release stability and deployment efficiency.

Impact:

- Contributed to securing ApTSi's first enterprise client, **Eastern Michigan University**, for the Zero Trust as a Service (ZTaaS) platform.

Technologies: Angular, TypeScript, Express.js, PostgreSQL, Keycloak, Chart.js, Azure, Jenkins, Git, Wekan, Figma, Postman

Personal Projects

APIWatchdog — AI-Assisted API Reverse Engineering and Security Tool - Github link - *Live*

- Built an end-to-end platform that converts **runtime logs**, **HAR files**, and **Postman/JSON collections** into actionable API artifacts including **OpenAPI/Swagger specifications**, sequence diagrams, and security reports.
- Implemented automated endpoint discovery with usage pattern analysis and example payload extraction from real traffic.
- Integrated **LLM-powered inference** via **OpenRouter API** to generate request/response schemas, example payloads, and API coverage insights.
- Generated exportable visual API flow diagrams using **Mermaid**, supporting PNG and SVG formats for documentation and audits.
- Designed a consolidated reporting pipeline producing OpenAPI YAML, diagrams, and PDF security reports for developer onboarding and compliance handoffs.

- Deployed the application on **AWS (EC2)** with a **Node.js** backend and **Angular** frontend.

Impact:

- Reduced manual API specification effort by approximately **60%**, accelerating onboarding for engineering teams and third-party integrators.
- Improved API security triage by consolidating findings with actionable remediation recommendations, supporting audit readiness.

Technologies: Angular, Node.js, OpenRouter (LLM API), Tailwind, AWS , OpenAPI/Swagger, Mermaid, CI/CD (GitHub Actions, Jenkins), Astro (Documentation Site), Postman

Technical Skills

Programming Languages: C, C++, TypeScript

Frontend: Angular, HTML, CSS, Bootstrap, Tailwind

Backend: Node.js, Express.js

Databases: PostgreSQL

Cloud & DevOps: AWS, Jenkins, GitHub, CI/CD

Security & Architecture: Zero Trust Architecture, API Governance, OpenAPI

Tools: Git, Keycloak, Wekan, Figma, Postman

OS: Linux, Windows

Achievements

- **TCS CodeVita:** Global Rank 1572.
- Contributed to **DevSecOps** and **SCRM Capability** Presentation under **Zero Trust Architecture** at DevSecOps Days Washington D.C. 2024, held at **Carnegie Mellon University**.
- Solved 300+ algorithmic and data-structure problems on platforms such as LeetCode and HackerRank.

Certifications

- Getting Started as a Full Stack Web Developer
- Advanced C Programming

Languages

English (Professional Working Proficiency)

Hindi (Professional Working Proficiency)

Marathi (Native or Bilingual Proficiency)