

Ankit Pasayat, Software Engineer

Bengaluru

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EMPLOYMENT HISTORY

Senior Software Engineer, Shell, Bengaluru

Nov 2024 – Present

- Mentoring a team of 3 engineers (1 backend, 2 frontend), conducting code reviews, defining technical architecture, and managing delivery timelines across multiple initiatives.
- Initially architected geospatial file storage platform serving 2 Shell subsidiaries (Australia and Europe) for carbon credit projects, managing 800+ files—implemented vector database for GIS querying, designed PostgreSQL schema, and deployed FastAPI backend with custom batch uploads.
- Subsequently leading "Fiber to Desk" (F2D) sensor visualization platform and developing "Tag Configurator Tool" (TCT) in parallel—architected real-time data monitoring using FastAPI/Django/React, designed C# backend API to overcome PI Web API limitations (pivoted from Next.js proof of concept), implemented MS Entra ID authentication and async background tasks for soft migration from legacy PI System tag management Salesforce application.

Software Engineer, Cisco (Security Business Group), Bengaluru

Jul 2022 – Jun 2024

- Developed licensing management component for next-generation firewall using GWT frontend and Perl backend with MySQL—managed license validation for enterprise deployments and optimized SQL queries with connection pooling for peak throughput.
- Received organizational recognition twice for resolving critical production escalations: debugged cryptography library upgrade breaking license activation, and fixed race condition in multi-threaded logic affecting enterprise customers.
- Built RESTful APIs for license CRUD operations, implemented caching layer to reduce database queries—improved license check response times significantly.
- Fixed 15+ customer-reported defects through root-cause analysis, established daily bug triage with QA and support, and assumed senior-level responsibilities, including architecture decisions and technical mentoring.

Specialist Programmer, Infosys, Bengaluru

May 2019 – Jun 2022

- Designed and deployed RESTful APIs using Node.js/Express with JWT authentication for Saudi smart city platform and Belgium credit insurance platform, integrating IoT devices and implementing Redis caching to reduce database load and improve system stability.
- Led migration from a monolithic legacy application to a microservices architecture, refactoring APIs and optimizing database queries—significantly reducing deployment time and production bugs.
- Built async Excel processing pipeline using Node.js with Bull queue and MongoDB, handling monthly employee records across business units with retry logic for background job processing and traffic spike handling.

EDUCATION

B. Tech. Computer Science and Engineering (CSE)

SRM Institute of Science and Technology (SRM IST), Chennai

CGPA: 80.11%

June 2015 – May 2019

SKILLS

- Programming Languages: JavaScript, TypeScript, Python, Perl, Java
- Backend & APIs: FastAPI, Django, Node.js/Express.js, Perl, RESTful API Development, GWT
- Frontend Technologies: React.js, Next.js, Angular, HTML, CSS
- Databases: MySQL, PostgreSQL, MongoDB
- Cloud & Auth: Azure, Keychain, SSO Integration
- Tools & Version Control: Git, Perforce
- Other: Performance Optimization, Production Debugging