Pallapati Abhinairaj

Software Engineer — Backend Development — C++ • Python • MySQL • Node.js • Java

Bengaluru, Karnataka, India

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Summary

Software Engineer with 8 months of industry experience at Cognizant and a strong foundation in Data Structures, Algorithms, backend development, and databases. Seeking Software Engineer and Backend Engineer (SDE-1) roles in fast-paced, learning-driven environments.

Skills

Programming Languages: C++, Python, Java, JavaScript
Backend Technologies: Node.js, Express.js, REST APIs
Databases: MySQL, MongoDB, DBMS
Frontend Technologies: HTML, CSS, React, Next.js, Tailwind CSS
Cloud & Tools: AWS, Git, Vercel
Core Concepts: Data Structures & Algorithms, Operating Systems, Computer Networks

Experience

Program Analyst Trainee   **2024-11 — 2025-06**
Cognizant   Chennai, Tamil Nadu, India

- Supported the TriZetto Facets healthcare platform managing claims and member data for 50,000+ users
- Optimized 10+ high-impact SQL queries in healthcare workflows, improving data retrieval performance by 15%
- Resolved frontend and backend defects, improving system stability and reducing support tickets
- Collaborated with cross-functional teams and mentored two new colleagues on platform workflows and best practices

Software Engineering Virtual Intern   **2024-02 — 2024-04**
JPMorgan Chase   Remote

- Implemented features for a financial services application focusing on data visualization and real-time data feeds using Python
- Strengthened frontend and backend development skills by contributing to scalable software components
- Collaborated on a simulated project addressing real-world banking use cases, enhancing debugging and problem-solving skills
- Applied industry-standard development practices and tools used in enterprise financial software

Projects

Splitter - AI-Powered Splitwise Clone   GitHub
Next.js, Convex, Clerk, Inngest, Gemini AI, Tailwind CSS

- Developed a full-stack, real-time expense management application with AI-powered spending insights and automated settlements
- Implemented a circular debt simplification algorithm, reducing settlement transactions by 40%
- Integrated Clerk authentication supporting Google and email login with JWT-based identity management
- Orchestrated background workflows using Inngest for AI-generated monthly insights and automated payment reminders
- Designed a real-time data architecture with Convex to synchronize expenses and balances instantly

Job Application Tracker   GitHub
React, Node.js, Express.js, MongoDB, JWT, Vercel

- Built a full-stack MERN application enabling users to securely track and manage job applications with CRUD functionality
- Implemented JWT-based authentication with bcrypt password hashing and protected API routes
- Designed RESTful APIs using Express.js and MongoDB to support user-specific job access and status tracking
- Deployed the application on Vercel with Axios interceptors for automated token handling

Education

Bachelor of Engineering in Computer Science and Engineering   **2020-07 — 2024-05**
Amrita Vishwa Vidyapeetham, Chennai

Achievements

- Solved 250+ Data Structures and Algorithms problems on LeetCode
- Completed AWS Academy Cloud Foundations & Architecting certification