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SUMMARY

Software engineer with expertise in developing no-code platforms and web services. Skilled in building scalable solutions and enhancing system functionality.

EXPERIENCE

Software Developer | IBM | Bangalore, Karnataka, India | July 2024 - Present

- **Developed an interface and API** for assigning web service policies in the Webmethods Integration Server, enabling configurations for **rate limiting, access control**, and response types such as **JSON and XML**.
- **Enhanced the HTTP interceptor** to empower customers to intercept, log, and manipulate requests in real time, facilitating use cases like **thread detection**.
- **Rewrote the server starter program** in Spring Shell to streamline server management (start, stop, restart) and implement health monitoring through tools like **Docker health checks, Splunk**, and **JProfiler**.

Software Engineer | Software AG | Bangalore, Karnataka, India | June 2023 - July 2024

- **Enhanced Mime mail service** to support large attachments (previously limited by in-memory storage), shifting the process to secondary storage, enabling the handling of **GB-sized data**.
- **Implemented an interface and API** to securely fetch and save global variables, ensuring robust access control.
- Developed an **IP tree implementation** that replaced ArrayList for access checks, reducing latency and memory usage by **50%**.
- Built a **CIDR wild-carding mechanism** for secure IP range-based access control, allowing users to define IP ranges and efficiently calculate permissions.
- **Fixed over 50 security vulnerabilities** related to regex and datetime handling, significantly improving system security.
- Created an **experimental code generation engine** using Javassist, converting pseudo-code into executable Java programs for live execution via classloader.

Software Engineering Intern | Software AG | Bangalore, Karnataka, India | December 2020 - June 2023

- **Explored and analyzed Webmethods Integration Server**, identifying key advantages, customer pain points, and performance bottlenecks.
- Developed a **Proof of Concept (POC)** for an automated **thread dump and snapshot collection** mechanism to detect and mitigate thread block and performance issues.
- Designed and implemented an enhanced **logging module** to capture error data, feeding it into an **AI-powered resolution engine** for root cause analysis.
- Created a context-aware **AI module** that integrates product knowledge and collected error data, providing actionable insights to support frontline product troubleshooting and performance improvement.

PROJECTS

Referral and Loyalty program builder | personal

- **Developed a no-code platform** that enables users to create referral and loyalty programs tailored to their businesses.
- The **builder provides injectable HTML elements** for seamless integration into business pages, facilitating easy onboarding.
- Built on the **Echo Go framework**, the platform is optimized to handle high volumes of customer traffic.
- Offers **detailed insights** into customer impact and behavior, enhancing decision-making for business owners.
- Includes a **no-code builder** that empowers business owners to design their own reward logic and customize their programs.

EDUCATION

BTech Information Technology | PSG College of Technology | Coimbatore, Tamilnadu, India | 2024 | 8.39

SKILLS

Front End: Typescript, AstroJs, HTML, CSS, Tailwind.

Backend: Node, Go, Java

Data: Sqlite, Postgres, Redis, Mysql.

Deployment: Windows Server, Linux, Kubernetes (OpenShift, Rancher), Azure, Digital Ocean, Docker.

CI/CD: Git actions.