Ranjith Kumar T

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EDUCATION

PSG College of Technology　　　　　　　　　　　　　　　　　　　Coimbatore, India
B.Tech Information Technology - 8.39/10　　　　　　　　　　　　　*Jul. 2019 – Apr 2023*

EXPERIENCE

Software Developer　　　　　　　　　　　　　　　　　　　　　　Jul 2024 – Present
IBM　　　　　　　　　　　　　　　　　　　　　　　　*Bangalore, Karnataka, India*
- 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 enable customers to intercept, log, and manipulate real-time requests, facilitating use cases like **threat detection**.
- Refactored 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**.
- Created a low-code tool using **Javassist** that automated the generation of **Java microservices** based on user-provided pseudocode through bytecode manipulation.

Software Engineer　　　　　　　　　　　　　　　　　　　　　　Jun 2023 – Jul 2024
Software AG　　　　　　　　　　　　　　　　　　　　　*Bangalore, Karnataka, India*
- Optimized the **Mime mail service** to handle large attachments by leveraging **secondary storage**, enabling the efficient processing of data sizes up to several **gigabytes**.
- Developed an **IP tree** and **CIDR wild-carding** mechanism for efficient and secure IP range-based access control.
- Fixed over 50 security vulnerabilities related to regex and datetime handling, significantly improving system security.

Software Engineering Intern　　　　　　　　　　　　　　　　　　Dec 2022 – Jun 2023
Software AG　　　　　　　　　　　　　　　　　　　　　*Bangalore, Karnataka, India*
- Explored and analyzed webMethods Integration Server, identifying key advantages, customer pain points, and performance bottlenecks.
- Developed 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 for training LLMs to perform **root cause analysis**.
- Trained a **local LLM** on product knowledge and error data to provide actionable insights for frontline troubleshooting and performance improvement.

Software Engineering Intern　　　　　　　　　　　　　　　　　　Apr 2022 – Jul 2022
Restogro　　　　　　　　　　　　　　　　　　　　　　　　　　*Chennai, India*
- Prepared a dataset from inventory data and trained an ML model to **predict inventory requirements** for clients like Subway and Cookie Man.
- Provided customer support by guiding clients through workarounds, migrations, and issue resolutions, ensuring clear communication with the development team.
- Designed and implemented a streamlined **data pipeline** to improve data collection efficiency.

PROJECTS

Referral and Loyalty program builder | *Go, Sqlite, React*　　　　　June 2020 – Present
- 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.
- Offers detailed insights into customer reach, enhancing decision-making for business owners.
- Features a no-code builder that utilizes Go's **AST** and **parser** packages, allowing business owners to design custom reward logic and personalize their reward programs using **pseudocode** (**Drag&Drop**).

TECHNICAL SKILLS

Languages: Java, Python, Go, SQL , JavaScript, Rust.
Frameworks: React, Node.js, Flask, JUnit, Echo.
Developer Tools: Git, Docker, Google Cloud Platform, Kubernetes.