Nishanthan Ravichandran

2269611701 | 376 Hyacinthe Blvd, Mississauga, ON | nishanthan.mr226@gmail.com | LinkedIn | GitHub

SUMMARY

Software Developer (Java) expertise in MVC, Spring, Hibernate, Microservices, API Development. Experienced in building scalable, high-performance backend systems supporting mobile, web applications. Built RESTful APIs, implemented OAuth/JWT authentication, worked with MySQL and relational databases. Strong foundation in Agile development, technical documentation (UML, Swagger), and QA processes. Optimized Sears' SYW payment gateway, serving (80 Million+ USA users) using AWS WebSocket. Passionate on learning new frameworks, optimizing system performance. Recognized with exceptional ratings at both **Sears** and **Ingenico** for outstanding achievements.

TECHNICAL SKILLS

Programming: C++, Java, Python, Kotlin, C, C#, SQL, Shell Scripting
Frameworks: Spring Boot, Spring MVC, Hibernate, Spring Security
DevOps & Cloud: AWS, GCP, Azure, Docker, Bitbucket, Git, GitHub, GitLab, CI/CD, Jenkins, Kubernetes
Database: MySQL, PostgreSQL, MongoDB, Firebase, SQL Server Management Studio
Software Methodologies: Scrum, Agile, Waterfall, Lean Six Sigma, SDLC, Object-oriented Design
Tools: JUnit, Mockito, Eclipse, Linux, Maven, Gradle, Postman, JIRA, API, OAuth, JWT, Swagger (OpenAPI)

PROFESSIONAL EXPERIENCE

Ingenico Canada, Toronto, Canada: Android Developer   Sept 2024 – Dec 2024

- Collaborated with cross-functional teams in **SAFe Agile** environment and built **APIs**, **headless** services for primary payment app using **Kotlin**, contributing to a **60% increase** in **retail** system integration.
- Developed automated **test scripts** for **REST APIs** using **JUnit** & **Postman**, ensuring seamless API functionality with zero **regressions**.
- Collaborated in **Agile sprints**, participating in Sprint planning, Estimation, and **QA testing**, streamlining development cycles by 15%, leveraging **Test-Driven Development (TDD)**.
- Enhanced code coverage and app's robustness by writing **JUnit** test cases, performed regression testing and boosted workflow efficiency by 20%, standardized software documentation with **Confluence** templates.

Sears Holdings Corporation, Pune, India: Java Software Developer   June 2022 – June 2023

- Developed **50+ RESTful APIs** using **Java (Spring MVC, Hibernate)** for high-traffic **microservices**, optimizing API response time by 30%.
- Built **OAuth 2.0, JWT** authentication for **secure API access**, reducing unauthorized access incidents by 40%.
- Refactored **Hibernate queries** optimizing **MySQL** database performance, improving query execution speed.
- Designed, documented **API endpoints** using **Swagger (OpenAPI)**, ensuring clear integration guidelines for frontend and mobile teams, developed **frontend interface** using **React** for payment microservice.
- Led **unit testing** with **JUnit** & **Mockito**, achieving **90%+ test coverage**, reducing production bugs by 25%, developed API logging and monitoring tools using **Spring AOP**, leading to debugging efficiency.
- Enhanced Sears' payment gateway by building **AWS WebSocket API**, and temporarily stored payment status in **Redis** to schedule periodic payment status checks using **dequeue listener**.
- Automated security processes by **scripting** token generation for **API**, managed batch jobs on **UNIX** servers using Shell scripting. Recognized by **Principal Architect** and **Business Unit Head** for exceptional contributions

Allsoft Solutions, Mohali, India: Android and Backend Developer   June 2021 – Aug 2021

- Developed a high-performance Android media player using **Java**, integrating **Spring Boot** for **backend API** development to manage media metadata and user preferences.
- Implemented **RESTful APIs** using **Spring MVC** & **Hibernate** for seamless data retrieval from **MySQL**, optimizing backend performance by 30%.
- Led the complete software development lifecycle, managing builds with **Gradle** and coordinating a team of 4 developers in Agile sprints.

PROJECTS

Brainy Bits AI   Github
Skills: Flask | Python | OpenCV | TensorFlow | Keras | AWS RDS | MySQL | Image Processing

- Built an **AI application** to monitor classroom activities, capturing students' head poses, emotions, and eye movements real-time data from classroom sensors,with **97%** accuracy, generating detailed attentiveness reports.
- Created robust technical documentation, outlining data handling protocols and standards for ease of integration.
- Utilized **Flask** web framework, **OpenCV** for **image processing**, **TensorFlow/Keras** for model development, **MySQL** hosted in AWS RDS for efficient data storage, implementing optimized queries and indexing for faster data retrieval and analysis.

Job Finder   [Github](#)

Skills: Java | Spring Boot | Hibernate | MySQL | React | OAuth 2.0 | JWT | Swagger | Docker | Jenkins
- Developed a **full-stack** Job Finder application with a **Spring Boot backend** and **React frontend**, implementing RESTful APIs for job listing, search, and user authentication.
- Led API security implementation by integrating **Spring Security** with **OAuth 2.0, JWT authentication**, ensuring compliance with **OIDC** standards and enforcing role-based access control for secure API protection.
- Designed a **MySQL** database with **Hibernate ORM** to store job postings and user profiles, deployed using **Docker**, Jenkins **CI/CD** pipelines for automated builds and deployments.

RCube Green Ecom   [Github](#)

Skills: Django | Python | HTML | CSS | JavaScript | SQLite 3 | GitHub | Git | Agile | UI/UX | Google API
- Developed POC and dynamic ecommerce and blog platform for eco-conscious users integrating Google Sign-In authentication, **APIs**.
- Followed software engineering best practices, including **Agile** methodologies, rigorous **code reviews**, and coding standards, contributing to **higher code quality** and **operational excellence.**

UNIX Shell+   [Github](#)

Skills: C | Networking | System programming | Unix/Linux | Sockets | Load Balancing | Bash Scripting | OS concepts
- Built a **client-server application** with **load balancing**, dynamically redistributing client connections using multi-threading, handled memory management to optimize resource usage when **server load exceeds 70%**
- Designed data processing protocols using FTP and HTTP, optimizing data transmission efficiency by 35%.

n2n Movies   [Website](#) | [Github](#)

Skills: Front end web development HTML | CSS | Javascript and JSON and Animations to enhance UI
- Developed an online movie ticket booking system with a user-friendly interface to streamline the booking process. Focused on front-end development to create an attractive UI and design for enhanced user experience.

PUBLICATIONS

- Document reader, summarizer, Built on GPT-4o published in ChatGPT store, [ChatGPT](#)

- WebSocket technology AWS WebSocket API and SockJS Library, [LinkedIn](#)

- An Empirical Study on Architecture and Efficiency of Dalvik VM and Android Runtime (ART), [IJRASET](#)

EDUCATION

Master of Applied Computing   Sept 2023 - Dec 2024
University of Windsor, Windsor, ON   3.7/4

Bachelor of Technology (Computer Science and Engineering)   July 2019 - June 2023
Lovely Professional University, India   3.6/4

CERTIFICATIONS

- Master Spring Boot 3, Spring Framework 6 with Java, Udemy

- React with Redux, React-Router, Hooks and Auth0, Udemy

- AWS Certified Cloud Practitioner (CLF-C02) Cert Prep: 1 Cloud Concepts, LinkedIn

- Spring Security 6 with ReactJS, OAuth2, JWT, Spring Boot, Udemy

- Java from Zero to Advanced, Udemy