

Raghav Bobal

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Professional Summary

Full Stack Software Developer with nearly 5 years of experience building and supporting secure enterprise applications across frontend, backend and API layers. Skilled in Java, Spring Boot, Python, Angular, React, TypeScript, Node.js, REST APIs and SQL, with experience in microservices environments, production troubleshooting, CI/CD, cloud technologies and application security. Expanding into AI engineering through hands-on Spring AI, AWS Bedrock and MCP prototyping, alongside RAG and agent-based system design.

Technical Skills

Languages: Java 17/21, JavaScript, TypeScript, Python, SQL, HTML5, CSS3

Frontend: Angular, React, RxJS, NgRx, Angular Router, Reactive Forms, SCSS, Responsive Design, WCAG

Backend & APIs: Spring Boot, REST APIs, Node.js, Express.js, Microservices, PostgreSQL

Architecture & Systems: OAuth2, JWT, Distributed Systems, Event-Driven Architecture, SonarQube, CodeQL, SAST/SCA

Testing & Quality: JUnit, Jasmine, Karma, Unit Testing, Integration Testing

Cloud & DevOps: AWS, Azure, Docker, CI/CD, Git, Bitbucket, GitHub, Maven, Gradle

AI Development: Spring AI, Model Context Protocol (MCP), AWS Bedrock (personal prototype); RAG, LangGraph and vector search

Professional Experience

Bank of Montreal (BMO) | March 2022 – March 2026

Software Developer, Full Time

Wire Services UI

- Delivered beneficiary management functionality for enterprise wire payments, enabling business customers to create, update and reuse beneficiary information across payments and templates
- Engineered reusable Angular and TypeScript components, reactive forms and validation logic with REST API integration, structured request/response handling and consistent error management
- Built contract aligned mock services to unblock development and testing while backend APIs were unavailable
- Debugged API payload mismatches, validation failures and integration defects across secure banking workflows

Platform Security & Quality Enablement

- Investigated and resolved Java application build failures involving Gradle, dependency conflicts, SonarQube quality gates and CI/CD configuration issues across enterprise banking systems
- Implemented dependency upgrades, configuration changes and secure coding fixes to address application vulnerabilities and improve compatibility across Java and web applications
- Strengthened application quality through CodeQL, SonarQube, SAST/SCA scanning, automated testing and release validation within CI/CD workflows
- Troubleshoot application and integration defects using build logs, dependency analysis and root cause investigation

Team Rangers – OLBB Lite

- Developed digital banking features using Angular, TypeScript, RxJS, NgRx and REST APIs for small and medium sized businesses
- Built reusable UI components and reactive data flows to improve maintainability and application consistency
- Troubleshoot frontend, API and SQL-backed integration issues while supporting testing, production releases and cross-team delivery

Secured Shield Services (SSS)

- Led investigation, prioritization and remediation coordination for 1,800+ security vulnerability findings across enterprise Online Banking applications contributing hands on dependency, code and configuration fixes
- Served as Interim Product Owner, coordinating technical priorities, sprint planning, remediation tracking and release readiness across development, cybersecurity and operations teams
- Contributed hands-on code, dependency and configuration fixes to strengthen application security and compliance

Lambton College | September 2021 - December 2021

Research Student, Part Time

- Designed and implemented secure healthcare data exchange workflows integrated with OHIP systems, supporting interoperability, encrypted communications, and role-based access controls
- Worked on healthcare-oriented data handling and interoperability concepts within regulated environments

Beacontree Technologies | April 2021 - August 2021

Software Developer, Intern

- Built backend application features using Node.js and Express for ERP, inventory and asset management workflows
- Developed and integrated REST APIs between React applications, backend services and relational data stores
- Supported full stack features from implementation through testing and deployment

Projects

AI Banking Operations Agent

Java 21, Spring Boot, Spring AI, AWS Bedrock, MCP

- Developed a two-service AI banking agent prototype integrating Spring Boot, Spring AI and MCP-based tools for synthetic banking operations
- Implemented Java-based account inquiry, transaction lookup and support-case logic with REST interfaces, validation and error handling

Enterprise Security & Banking RAG Assistant

Python, AWS Bedrock, Amazon S3, OpenSearch Serverless, Embeddings, RAG

- Designed a retrieval-augmented generation architecture for searching enterprise banking and security documentation using semantic retrieval
- Defined document ingestion, embedding generation, vector search and source-grounded response workflows to improve information accessibility and accuracy

AI Incident & Production Support Agent

Python, FastAPI, LangGraph, ChromaDB, SQLAlchemy

- Designed an AI-assisted incident investigation architecture for analyzing application logs, retrieving troubleshooting knowledge and identifying potential root causes
- Defined agent workflows for contextual runbook retrieval, investigation tracking and human-reviewed remediation recommendations

Bobal, the language learning app

Python, Apache Solr, Selenium, Kotlin

- Implemented search and retrieval functionality using Python and Apache Solr including ingestion, query processing and ranking logic

Education

Lambton College | January 2020 - August 2021

Post Graduate Diploma in Mobile Applications Design and Development

SRM University | August 2015 - July 2019

Bachelors of Technology in Computer Science

Certifications

AWS Serverless – Knowledge Badge (2025)

AWS Events & Workflows – Knowledge Badge (2025)