

Dibya Rani Saru Magar

Full Stack Developer | St.John's, NL, Canada

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SUMMARY

Full Stack Software Engineer with **7+ years of experience** building scalable web applications, distributed systems, and cloud-native platforms using **Java, Spring Boot, React, TypeScript, Node.js, and AWS**. Experienced in designing enterprise-grade APIs, microservices, real-time applications, and data-driven solutions across healthcare, logistics, and workforce technology domains. Skilled in frontend and backend development, system design, cloud infrastructure, and performance optimization. Hands-on experience with **AI-powered applications, including LLM integrations, Retrieval-Augmented Generation (RAG), and intelligent automation workflows**.

TECHNICAL SKILLS

Programming Languages: Java, TypeScript, JavaScript (ES6+), Python, SQL

Frontend: React, Next.js, Redux Toolkit, React Query, TailwindCSS, HTML5, CSS3

Backend: Java, Spring Boot, Node.js, Express.js, FastAPI, REST APIs, GraphQL, WebSockets, Temporal

Databases: PostgreSQL, MongoDB, Redis, TimescaleDB

Cloud & DevOps: AWS (EC2, S3, SQS, CloudFormation), Docker, CI/CD Pipelines, GitHub Actions

AI & Modern Engineering: LLM API Integration, Retrieval-Augmented Generation (RAG), Prompt Engineering, Vector Embeddings, Agentic Workflows

Core Engineering: System Design, Microservices Architecture, Distributed Systems, API Design, Authentication & Authorization, Data Modeling, Performance Optimization, Code Reviews, Scalable Architecture

EXPERIENCE

Full Stack Java Developer | Skill Squirrel | Toronto, ON

Nov 2024 – Present

Responsibilities:

- Designed and developed full-stack platform capabilities supporting **skills-based hiring, digital credential management, and workforce engagement workflows** using **Java, Spring Boot, React, TypeScript, and PostgreSQL**.
- Built scalable backend services and REST APIs using **Spring Boot** to power candidate onboarding, credential verification, employer workflows, and profile management functionalities.
- Developed responsive and reusable frontend components using **React, Next.js, Redux Toolkit, and TailwindCSS**, improving usability across multi-role platform experiences.
- Designed and implemented secure authentication and authorization mechanisms using **JWT-based access control** and role-based permissions for enterprise and administrative users.
- Integrated modern API workflows and intelligent search capabilities to support candidate matching, skills discovery, and data-driven recommendation experiences.
- Improved backend scalability and application responsiveness through **query optimization, Redis caching, asynchronous processing, and efficient data access patterns**.
- Contributed to cloud deployments and release automation using **AWS, Docker, and CI/CD pipelines**, supporting reliable production delivery and deployment consistency.
- Collaborated closely with cross-functional teams, including product, engineering, and business stakeholders, to deliver scalable platform features aligned with evolving product requirements.
- Maintained high engineering standards through **code reviews, clean architecture practices, reusable component design, and performance-focused development**.

Environment: Java, Spring Boot, Node.js, React.js, Next.js, TypeScript, Redux Toolkit, REST APIs, JWT

Authentication, PostgreSQL, Redis, AWS (EC2, S3, RDS, CloudWatch), Docker, CI/CD Pipelines, Git, TailwindCSS

Software Engineer | PortPro Technologies | Kearny, NJ

Feb 2022 – Aug 2024

Responsibilities:

- Led end-to-end development of **multi-region appointment management and logistics tracking systems** used across the **USA, Canada, and Europe**, leveraging **React, TypeScript, Node.js, and a distributed microservices architecture**.
- Designed and developed scalable **Node.js microservices** automating operational workflows for **500+ trucking companies**, supporting high-volume scheduling and business-critical logistics operations.
- Reduced appointment conflicts by **60%** by driving adoption of **Temporal workflow orchestration**, implementing stateful workflow management for complex scheduling dependencies and asynchronous business processes.

- Built real-time, distributed application capabilities using **Redis, WebSockets, and event-driven communication patterns** to support low-latency fleet telemetry and operational visibility.
- Developed secure backend APIs and service integrations with **JWT authentication, authorization controls, and API security best practices** across distributed services.
- Optimized system performance through effective use of **MongoDB, Redis, and TimescaleDB**, reducing query latency by **40%** for time-series and operational data workloads.
- Implemented **AWS S3-based object storage solutions** for appointment screenshots and audit assets, enabling durable storage, fast retrieval, and improved operational traceability.
- Contributed to frontend architecture and user experience enhancements using **React, TypeScript, and reusable component design**, improving maintainability and development velocity.
- Developed and maintained automated test coverage using **Jest and React Testing Library**, strengthening application reliability, code quality, and deployment confidence.
- Managed infrastructure and deployment workflows using **AWS (EC2, S3, SQS), Docker, and CI/CD pipelines**, supporting scalable and reliable production environments.
- Collaborated with engineering, product, and operations stakeholders to deliver scalable backend features and continuously improve platform performance, maintainability, and operational efficiency.
- Proactively contributed beyond core responsibilities through **architecture discussions, legacy refactoring, design reviews, and enforcement of clean engineering practices**.

Environment: Node.js, Express.js, React.js, TypeScript, Redux, Temporal, WebSockets, REST APIs, MongoDB, Redis, TimescaleDB, AWS (EC2, S3, SQS, CloudWatch), Docker, Jest, React Testing Library, CI/CD Pipelines, Git

Software Engineer | Cedar Gate Technologies | Greenwich, CT

Dec 2019 – Jan 2022

Responsibilities:

- Developed scalable full-stack applications supporting **healthcare analytics, care management, and operational reporting workflows** using **Java, Spring Boot, React, TypeScript, and cloud-based architecture**.
- Built and enhanced backend services using **Java, Spring Boot, REST APIs, and PostgreSQL** to power analytics dashboards, reporting workflows, and healthcare data management operations.
- Designed and implemented reusable frontend modules using **React, Next.js, Redux Toolkit, and TailwindCSS**, improving user experience, component maintainability, and application responsiveness.
- Developed secure API integrations, authentication workflows, and role-based access controls to support enterprise application security and controlled data access patterns.
- Designed scalable data access and backend processing workflows leveraging **PostgreSQL, Redis, and optimized query strategies** to improve performance for analytics-driven applications.
- Collaborated with cross-functional product, engineering, and business teams to translate functional requirements into scalable technical solutions and production-ready features.
- Contributed to cloud infrastructure management and deployment automation using **AWS, Docker, and CI/CD pipelines**, improving deployment reliability and environment consistency.
- Improved frontend and backend application performance through **component optimization, API tuning, data modeling improvements, and scalable architecture patterns**.
- Participated in engineering best practices, including **code reviews, system design discussions, technical documentation, and maintainability improvements** across multiple product initiatives.
- Supported integration of external systems and enterprise data workflows through **API development, backend service orchestration, and scalable microservices design principles**.

Environment: Java, Spring Boot, Node.js, React.js, Next.js, TypeScript, Redux Toolkit, REST APIs, GraphQL, PostgreSQL, Redis, AWS (EC2, S3, RDS, CloudWatch), Docker, CI/CD Pipelines, Git, TailwindCSS

EDUCATION & CERTIFICATIONS

MASc. Software Engineering | Memorial University of Newfoundland and Labrador

- JavaScript Complete Guide, Master React.js with AI: From Basics to Advanced Development, Udemy
- DevOps Training (CI/CD, Containerization, Cloud), Microsoft Certified: Azure Data Fundamentals