

Pradesh Gwachha

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Professional Summary

Results-driven Software Engineer with 6+ years of experience specializing in Full Stack Software Engineering, with a strong track record in building secure, scalable, and high-performance applications across healthcare and fintech sectors. Proven expertise in delivering full stack web solutions using MERN and robust backend systems with Java Spring Boot, microservices, and cloud-native technologies (AWS, Kafka, Docker, Kubernetes). Passionate about leveraging modern development practices and clean architecture to create user-centric, reliable, and efficient software products. Skilled in cross-functional collaboration with product, design, and AI/ML teams to translate complex business requirements into innovative tech solutions.

Work Experience

Software Engineering - Full Stack Java Developer

Aug 2024 - Present

United Healthcare – Hopkins, MN (Hybrid/Remote U.S.)

- Developed and maintained enterprise-scale healthcare applications, leveraging Java (Spring Boot) for backend services and React.js for dynamic, responsive front-end interfaces.
- Designed and implemented RESTful APIs and microservices to support claims processing, provider management, and member engagement workflows along with optimized backend query execution and caching strategies, reducing API response times by **35%** and improving overall application performance.
- Integrated backend services with relational and NoSQL databases (PostgreSQL, MongoDB, MySQL), ensuring optimized queries and secure data access compliant with HIPAA regulations.
- Managed containerized deployments via Docker and Kubernetes in AWS or Azure environments, enhancing reliability and service scalability.
- Tech Stack: Java, Spring Boot, Spring Security, RESTful APIs, React.js, JavaScript, HTML5, CSS3, PostgreSQL, MongoDB, MySQL, Docker, Kubernetes, Git, Jenkins, JUnit, OAuth2, JWT.

Software Engineer – Java Backend Development

Aug 2021 - July 2023

Cedar Gate Technologies – Greenwich, CT (Hybrid/Remote U.S.)

- Designed and developed scalable, secure, and high-performance backend services using Java (Spring Boot) to power Cedar Gate's healthcare analytics, payment integrity, and value-based care platforms.
- Built RESTful APIs and microservices to enable data exchange across enterprise systems, supporting core features like provider performance scoring, claims processing, and patient/member engagement.
- Integrated with cloud-native tools and services (e.g., AWS, Azure, Kafka, PostgreSQL, MongoDB) to ensure robust data handling and operational reliability at scale.
- Applied Clean Architecture and SOLID principles to build modular, maintainable services with a focus on long-term scalability and unit testing.
- Developed batch and streaming data pipelines for processing millions of healthcare records using Spring Batch, Apache Kafka, and ETL tools.
- Automated testing (JUnit, Mockito) and CI/CD workflows using Jenkins, GitHub Actions, and Docker, contributing to a **40%** reduction in deployment issues.
- Tech Stack: Java, Spring Boot, Spring Security, Spring Data JPA, Microservices, RESTful APIs, PostgreSQL, MongoDB, MySQL, Redis, Apache Kafka, RabbitMQ, AWS, Docker, Kubernetes, JUnit, Mockito, Postman, JWT, OAuth2.

Software Engineer – Full Stack Java Developer

Nov 2018 - Aug 2021

RiddhaSoft - Kathmandu, Nepal (Onsite)

- Developed and maintained web applications using Java (Spring Boot) for backend services and React.js for dynamic, responsive front-end interfaces.
- Created and consumed RESTful APIs to enable secure and efficient communication between frontend and backend systems. Reduced API response times by **25%** through optimized database queries and caching strategies.
- Implemented authentication and authorization workflows using Spring Security, JWT, and OAuth2 for role-based

access control.

- Worked closely with senior developers to refactor legacy codebases, improving maintainability and reducing technical debt. Contributed to a 20 percent improvement in feature delivery speed by implementing reusable UI components and backend modules.
- Collaborated with QA teams to write and execute JUnit and Mockito tests, ensuring functionality and stability before deployment.
- Assisted in deploying applications using Docker and configuring CI/CD pipelines to streamline release cycles.
- Tech Stack: Java, Spring Boot, Spring Security, RESTful APIs, React.js, MySQL, PostgreSQL, HTML, CSS, JavaScript, Git, Docker, JUnit, Mockito, OAuth2, JWT.

Education

Troy University, Masters in Computer Science

August 2023 - May 2025

- **Relevant courses:** Software Engineering, Database, Computer Architecture, Analysis of Algorithms, Operating System
- **CGPA:** 3.63 / 4.0

Orchid International College, BS in Information Management

Aug 2017 - May 2022

- **CGPA:** 3.88 / 4.0

Projects

Cognera Health Inc.

Website

- Developed and maintained a comprehensive, modular full-stack solution powering Cognera Health's AI-driven mental healthcare platform, featuring components like HealAssist, HealScript, and HealTrack.
- Built intuitive user interfaces and backend services enabling diverse stakeholders—individuals, practitioners, and organizations—to access personalized wellness assistance, session management, analytics dashboards, and workflow automation.
- Ensured enterprise-grade security and compliance, implementing HIPAA compliance, SOC 2 Type II protocols, end-to-end encryption, and audit-ready architecture to protect sensitive health data.
- Optimized performance for healthcare delivery, reducing time spent on documentation and treatment planning through AI-powered automation, diagnostics, session summaries, and progress analytics.
- Collaborated in a lean, agile setup, incorporated feedback from Troy University's IDEA Bank, and supported the development of Cognera's MVP—BrightLyf—securing **\$100,000** in seed funding and winning the Alabama Launchpad Life Sciences competition.
- Tech Stack: React.js, Next.js, Python, Supabase (PostgreSQL, Authentication, Storage), RESTful APIs, WebSockets, TailwindCSS, Shadcn, LikeKit.

Full Stack Realtime Chat Application

Github

- Real-time messaging powered by Socket.io with live online/offline status updates.
- User authentication and authorization using JWT for secure access control.
- Global state management using Zustand to handle UI and user interaction seamlessly.
- Dynamic UI designed with TailwindCSS and Daisy UI for responsiveness and accessibility. Cloudinary integration for profile image uploads.
- Tech Stack: React, Node.js, Express, MongoDB, Socket.io, TailwindCSS, Zustand, Daisy UI

Technologies

Languages: Java, JavaScript, Dart, Kotlin, PHP, Python, SQL, HTML5/CSS3

Mobile Development: Flutter, Android (Java/Kotlin basics), Cupertino Widgets, Flutter Animations, Material Design

Frameworks: React.js, Node.js, Express.js, Spring Boot(Spring Boot, Spring MVC, Spring Security), Tailwind, Bootstrap

Databases: PostgreSQL, MongoDB, MySQL, SQLite, Supabase, Firebase Firestore

Authentication and Security: JWT, OAuth2, Firebase Auth, Supabase Auth, Role-Based Access Control (RBAC)

Cloud and DevOps: AWS (EC2, S3, RDS), Docker, Kubernetes, GitHub Actions, Jenkins

Messaging and Streaming: Apache Kafka, RabbitMQ

Testing: JUnit, Mockito, Flutter Test (unit, widget, integration), Postman

Tools: Git, GitHub, Maven, Gradle, Docker, IntelliJ IDEA, Android Studio, VS Code, Jira, Slack