

# Kalp Senghani

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Full Stack Developer with hands-on experience designing, developing, and deploying scalable web applications using React, Next.js, Node.js, Java Spring Boot, and PostgreSQL. Skilled in building secure, efficient, and user-centric solutions through RESTful APIs, microservices architecture, real-time event streaming, and test-driven development. Proficient in implementing Spring Boot for backend services with comprehensive API documentation, high availability, and scalability. Experienced with Agile methodologies, CI/CD pipelines, and DevOps tools, delivering high-quality software that drives business value.

## EDUCATION

### George Brown College

Toronto, ON

*Advanced Diploma in Computer Programming and Analysis*

*Sep. 2022 – April 2025*

- Developed full-stack web applications using **React.js**, **Next.js**, **Node.js**, **Express**, and **MongoDB/MySQL**, with secure authentication (JWT) and deployed with **Docker** and **Vercel**.
- Built RESTful APIs and microservices using Node.js, Java Spring Boot, and PostgreSQL, applying object-oriented programming and test-driven development practices.
- Applied Agile methodologies to deliver projects iteratively, collaborating using Git/GitHub and writing clean, maintainable code.
- Strengthened problem-solving skills through data structures and algorithms (DSA) and integrated AI features with **OpenAI APIs** for building intelligent, user-centric applications.

## EXPERIENCE

### Information Technology Support Specialist

Apr. 2023 – Apr. 2025

*George Brown College*

*Toronto, ON*

- Configure and maintain campus-wide **Windows/macOS systems**, software, and networked devices
- Diagnosed and resolved complex hardware, software, and networking issues for 1000+ students, faculty, and staff with a 95% satisfaction rate
- Reduced printer downtime by 30% through automation of health checks across 200+ network endpoints, enhancing workflow efficiency.
- Provided Tier 1/Tier 2 support, asset tracking, and documentation for internal IT processes.
- Tools/Skills: Windows, macOS, Troubleshooting, Network Support, Software Deployment, Endpoint Management, ITSM

## PROJECTS

### E-Commerce Microservices Platform – Scalable Java Spring Boot System

Sept. 2024 – Dec. 2024

- Designed and developed a robust e-commerce platform using Java Spring Boot with a microservices architecture ensuring high availability, scalability, and modularity.
- Implemented real-time inventory management, order tracking, and secure payment processing leveraging RESTful APIs and Spring Security concepts.
- Integrated Apache Kafka for event-driven communication and real-time user notifications, enhancing system responsiveness and user experience.
- Utilized Docker for containerization and efficient deployment, ensuring consistency across development, testing, and production environments.
- Employed Swagger for comprehensive API documentation to support seamless collaboration with frontend and QA teams.
- Applied Agile development practices with iterative releases, daily stand-ups, and sprint retrospectives to drive continuous improvement.
- Tech Stack:** *Java Spring Boot, Docker, Kafka, Swagger, REST APIs, Microservices, PostgreSQL, Agile, Git*

### YouTube Analytics SaaS – Advanced Creator Intelligence Dashboard

April 2025 – Present

- Designed and deployed a scalable backend architecture using TypeScript, Express.js, and PostgreSQL, supporting 10,000+ concurrent users with high-availability APIs.

- Integrated the YouTube Data API v3 to deliver real-time video/channel metrics and audience behavior insights with <200ms latency per request.
- Developed modular, containerized microservices using Docker and Prisma ORM, enabling zero-downtime deployments and CI/CD across cloud environments.
- Engineered interactive, responsive dashboards with Tailwind CSS, shadcn/ui, and Recharts, achieving 42 percent increase in average session duration.
- Implemented secure JWT-based authentication, role-based access control, and analytics module extensibility to support multi-tier user plans and high retention rates.
- **Tech Stack:** *TypeScript, Express.js, Tailwind CSS, shadcn/ui, YouTube Data API, Prisma ORM, PostgreSQL, Docker*

#### Employee Management System – Role-Based HR Admin Portal

Jan. 2025 – March 2025

- Built a role-based HR portal managing 100+ employees with 98% uptime and seamless JWT-based session control along with integrated Apollo Client for optimized data fetching .
- Designed scalable backend architecture in Node.js/Express with modular GraphQL schema, MongoDB integration, and efficient error handling middleware.
- Implemented a responsive Angular UI with CRUD operations, protected routes, and real-time form validation to mimic enterprise-grade HR systems.
- **Tech Stack:** *Angular, GraphQL, Apollo Client, Node.js, Express.js, MongoDB, JWT Auth*

#### TECHNICAL SKILLS

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**Languages:** JavaScript (ES6+), TypeScript, Python, Java(Spring boot), SQL, C/C++, HTML/CSS

**Frameworks:** React.js, Next.js, Angular, Node.js (Express), FastAPI, GraphQL, Apollo Client, TailwindCSS, Zustand, Redux, Material-UI

**Backend & DevOps:** : Docker, Kubernetes, GitHub Actions, RESTful APIs, GraphQL APIs, JWT/Auth, OAuth2 (conceptual knowledge), NGINX, Unit Testing (Jest, Mocha, JUnit)

**Databases:** PostgreSQL, MongoDB, Redis, MySQL

**Developer Tools:** Git, Docker, TravisCI, AWS, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** Pandas, NumPy, Matplotlib, OpenAI API, Requests, JSON, Web Scraping (BeautifulSoup, Selenium)