Sanjana Sayeed

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Summary

- Software Engineer with hands-on experience for 2+ years in developing scalable full-stack web applications and cloud-native services.
- Skilled in building microservices architectures, designing high-performance RESTful APIs, and implementing efficient CI/CD pipelines.
- Proficient in Java, Node.js, Next.js, TypeScript, Python, React.js, Vue.js, MongoDB, and cloud platforms.
- Strong foundation in computer science principles, distributed systems, and software quality assurance.
- Passionate about solving real-world problems through clean code, system optimization, and collaborative engineering practices.

Work Experience

Software Engineer I — Sep 2021 - Oct 2022

Rainier Technologies, Dhaka, Bangladesh

- Designed and developed a microservices-based cloud EHR system using Java and Node.js for patient records, appointments, treatments, and billing modules.
- Built and integrated 100+ RESTful APIs with Node.js, TypeScript, and Express.js, maintaining 90%+ unit test coverage through test-driven development (TDD).
- Developed Vue.js-based dashboards for clinicians and administrators, enhancing usability and operational
- efficiency.
- Implemented secure authentication and authorization (JWT, OAuth2, RBAC) and optimized MongoDB queries with
- Redis caching to improve response times by 40%.
- Set up CI/CD pipelines with GitHub Actions and Docker, reducing deployment time by 25%.
- Collaborated in an Agile (Scrum) environment, consistently delivering microservice modules each sprint.

Software Engineer Intern — Mar 2021 - Aug 2021

Rainier Technologies, Dhaka, Bangladesh

- Assisted senior developers in maintaining and refactoring legacy microservices to improve system modularity and performance.
- Supported backend development efforts using Node.js, focusing on efficient data handling and API enhancements.
- Contributed to front-end development by translating Figma prototypes into responsive UI components using Vue.js and Tailwind CSS.
- Prepared technical documentation for newly built and refactored microservices to improve team knowledge sharing and future maintenance.
- Processed and optimized large datasets (5,000+ patient records, 50,000+ billing entries) using Python scripts, enhancing data integrity and streamlining clinic operations.

Technical Skills

- Languages: Python, Java, JavaScript, TypeScript, PHP, HTML/CSS
- Frameworks/Technologies: Node.js, Spring Boot, Express.js, Vue.js, React.js, Next.js, React Native, Django, Flask,
- .NET, TailwindCSS
- Databases: MongoDB, MySQL, PostgreSQL, SQLite3, Redis
- Tools: Git, GitHub, Docker, Eclipse, Maven, LaTeX, Figma, JUnit
- Architecture: MVC, MVT, RESTful APIs, Microservices, SOLID Principles, SOAP
- Methodologies: Agile (Scrum), OOP, UML
- Data Analytics: NumPy, Pandas, Scikit-learn
- Cloud: DigitalOcean, Netlify, Vercel

Projects

Bangla Content Management Platform

Developed a Vue.js frontend and Express.js/MongoDB backend for efficient content management, used by a Montreal-based organization. Deployed on Vercel, reducing latency by 30%.

Context-Aware Intelligent Travel Assistant

Built a hybrid recommendation engine integrating Google Maps, OpenWeather, and Yelp APIs for real-time personalized ravel suggestions. Developed a Flask backend with MongoDB, leveraging WebSockets for instant updates; frontend built with React.js for a seamless UX.

Education

Master of Engineering in Software Engineering — Winter 2023 - Fall 2024

Concordia University, Montreal, Quebec

Bachelor of Science in Computer Science and Engineering — Spring 2017 - Fall 2020

Brac University, Dhaka, Bangladesh

Achievements and Hackathons

ConUHacks IX, SAP Wildfire Response Challenge

Concordia University, Montreal, QC (Feb 2025)

- Built a real-time wildfire spread prediction model using machine learning techniques, optimizing emergency response strategies during a 24-hour collegiate hackathon (one of Canada's largest).
- Strengthened real-time data processing, adaptability, and agile teamwork in a high-pressure environment.