Justin Kim

Full Stack Developer
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TECHNICAL SKILLS

Programming/Scripting: Next.js, React, Angular, Java, C++, Express, Node.js, JQuery, Typescript, JavaScript, HTML, CSS (Material Design, Tailwind, Bootstrap), Shell Scripting
Databases: PostgreSQL, MongoDB, Firebase, Firestore, Supabase
DevOps: Docker, AWS (CloudWatch, EC2, ECS), Git, Github Actions
Tools & Misc: RESTful APIs, GraphQL, Linux, Postman, MySQL Workbench, Jest, Junit, Agile, SDLC, Redux, RxJS

WORK EXPERIENCE

Full Stack Developer   May 2022 - April 2023
ParTech Inc., Markham, ON

- Enhanced dashboard efficiency ~30% by serializing API calls with RxJS and applying custom lazy loading logic
- Designed and launched alternate store dashboard, upgrading scalability by offloading resource intensive API calls to client database (using Angular, Material UI, Chart.js, Java, and MySQL)
- Diagnosed and repaired production server, fixing backend API endpoint that caused database connection leaks
- Reduced concurrent database connection count by ~25% by closing unused connections throughout backend API
- Created, tested, and integrated RESTful APIs in Java with: eclipse debugger, postman, and MySQL workbench
- Refactored ~30% of webpages to support mobile view and responsive designs
- Gained exposure to AWS CloudWatch, EC2, ECS, RDS, Jenkins, and CI/CD pipelines

Full Stack Developer   May 2023 - Present
SOS Resoles, Mississauga, ON

- Architected and tested RESTful API endpoints with Express.js, MongoDB and secured backend with JWT tokens
- Built responsive Next.js (React) application, prioritizing SEO and a user-centric design approach to ensure optimal performance across various devices and screen sizes
- Dockerized both frontend web application and backend API server using Docker and Docker Compose

EDUCATION

Honours Bachelor of Technology in Software Development   Jan 2020 – Aug 2023
Seneca College, Toronto, ON

- President's Honour List from 2021-2023 (GPA 3.9)

TECHNICAL AND OPEN SOURCE PROJECTS

Stable Prompts Full Stack App: *A web application that allows users to CRUD and share AI Prompts*
Next.js, React, MongoDB, Google Oauth2, Tailwind   GitHub | Live Demo

- Created Next.js application that generates images with Stable Diffusion using keywords (prompts)
- Google Oauth2 integration – login with Google accounts.
- Constructed and integrated backend RESTful APIs that CRUD NoSQL database: MongoDB

Blockchain Banking Web App: *Sends and receives cryptocurrency between bank accounts.*
Java, Spring Boot, Thymeleaf, PostgreSQL, Docker   GitHub | Video Demo

- Developed backend logic in Java Spring Boot to handle signing and submitting transactions to the live blockchain
- Interfaced front end UI with backend and interfaced backend to blockchain Node using RPC protocol.
- Setup blockchain node using docker to broadcast transactions on live blockchain

AWS Microservice API: *A cloud-based RESTful API microservice allowing users to CRUD images*
AWS (EC2, Cognito, S3, DynamoDB), Docker, GitHub Actions, NGINX, Alpine, Jest   GitHub

- Constructed RESTful API and deployed on AWS using docker and NGINX
- Stored metadata on DynamoDB and data in S3 buckets
- Integrated AWS Cognito so users can be authenticated with Oauth2
- Utilized GitHub Actions to generate CI/CD pipeline that automatically tested and deployed service
- Automated testing using Jest with over 80% code coverage

Eventure Social Media Mobile App: *A mobile cross-platform social media application where users can share events*
Angular, Ionic, API Integration, Firestore, Firebase, UML, Android, iOS   Video Demo

- Established user stories and UML diagrams with Agile/SCRUM methodologies to visualize use cases
- Integrated TomTom API to find and display points of interest
- Utilizes firebase authentication and Firestore collections to store user data