

# JUSTIN D. KIM (He/Him)

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## TECHNICAL SKILLS

JavaScript Libraries & Frameworks	Angular, Next.js, React, Node.js, Redux, RxJS (HTML, CSS)
CSS Libraries	Tailwind, Material Design, Bootstrap
Programming & Scripting	Java, Springboot, C, C++, Python, Typescript, JavaScript, Unix Shell Scripting (Bash)
Databases	SQL (PostgreSQL, MySQL, SQLite), Firebase, Firestore, MongoDB
Tools & Misc.	Git, GitHub Actions, Figma, Postman, MySQL Workbench, AWS, Docker, Jest, JUnit

## WORK EXPERIENCE

### Software Developer – Full Stack Engineer

May 2022 – April 2023

#### ParTech Inc.

Markham, Ontario

Hired to migrate legacy AngularJS web application to modern Angular 13, patch bugs, and improve backend performance. After Angular 13 application was launched, focused on implementing new features, making existing web pages responsive, and reducing the load on our database, which was the limiting factor in scaling.

- Maintained ownership of widget dashboard that clients utilized to view organization performance metrics
- Reduced database and dashboard API calls by 30% by serializing API calls with RxJS and custom lazy loading logic
- Architected and implemented store [portal dashboard](#) using Angular, Material UI, and Chart.js to drastically improve scalability by transitioning resource intensive API calls to client databases
- Repaired production server by diagnosing and fixing an API endpoint that caused database connection leaks
- Reduced average database connection count by 25% by closing unused connections throughout application
- Performed load tests to ensure stability
- Created, debugged, and integrated RESTful APIs in Java with tools: eclipse debugger, postman, and MySQL workbench
- Migrated project from Angular/Material 13 to 14, and again to 15
- Heavy exposure to Material Design and responsive design
- Exposure to AWS CloudWatch, EC2, ECS, and RDS

### Project Coordinator

2016 – Aug 2019

#### Quantech Electrical Contractors Ltd.

Thornhill, Ontario

Hired to coordinate between project managers, engineers, and foreman on site. After onboarding, took on additional responsibilities such as automating repetitive tasks and joining the health and safety board.

- Created, updated, and debugged VBA scripts to automate emailing pay stubs to employees
- Coordinated between project managers, foreman on job sites, and suppliers for deliveries
- Oversaw the organization of shop drawings for engineering sign offs, employee training records, and equipment

## EDUCATION

### BSc. in Software Development – with Honours

Sep 2019 – Aug 2023

Seneca College, Toronto

## TECHNICAL PROJECTS

### Portfolio Website: [GitHub](#) | [Live Demo](#)

Next.js, React, Tailwind, Framer Motion

I created my portfolio website to highlight my work experience, skills, and projects.

- Developed using Next.js framework (React) and styled with tailwind
- Animated using framer motion

### Stable Prompts Full Stack App: [GitHub](#) | [Live Demo](#)

Next.js, React, MongoDB, Google OAuth2, Tailwind

A web application that lets users create, edit, and delete posts that are saved onto MongoDB.

- Developed using Next.js framework (React) and makes use of server-side rendering.
- Google OAuth2 integration – login with your existing google account to start sharing posts immediately.
- Created backend RESTful APIs for easier modularity and integration with database
- Posts are saved to NoSQL database MongoDB

## **TECHNICAL PROJECTS CONT'D**

### **Eventure Social Media Mobile App:** [Video Demo](#)

Angular, Ionic, API Integration, Firestore, Firebase, UML, Android, iOS

*The capstone project Eventure, is a mobile cross-platform social media application where users can find and create events. Users are able to search for points of interest, follow other users, and post events, pictures, and messages.*

- Developed application for compatibility for both Android and iOS mobile platforms
- Designed and developed 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

### **Wordle Clone:** [GitHub](#) | [Live Demo](#)

Angular, CSS, Bootstrap

*I created this version of wordle for a friend's baby shower. At the time, there were 4 words to solve, all relating to newborns.*

- Implementation of Wordle using Angular with responsive design in mind
- Learned to animate manually using CSS and keyframes.
- Includes a mobile and desktop view as well as light and dark theme.

### **AWS Microservice API:** [GitHub](#)

AWS (EC2, Cognito, S3, DynamoDB), Docker, GitHub Actions, NGINX, Alpine, Jest

*A cloud-based restful API microservice that allows users to perform CRUD operations with text and images.*

- Created restful API that was 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 CI/CD pipeline in GitHub Actions to automate testing and deployment
- Created test cases to automate testing and evaluated code coverage using jest

### **Blockchain Banking Web Application:** [GitHub](#) | [Video Demo](#)

Java, Springboot, Thymeleaf, PostgreSQL, Docker

*A banking application that sends and receives cryptocurrency between accounts. Transactions are signed locally and broadcasted to a live blockchain for improved security and immutability.*

- Developed backend in Java Springboot to handle signing and submitting transactions to the blockchain
- Setup a PostgreSQL server to store encrypted username and passwords
- Integrated jNano library to handle transactions to manage for store of value
- Setup Banano node using docker to broadcast transactions on live blockchain

## **VOLUNTEER EXPERIENCE**

### **Seneca's Student Mentoring in Life and Education (SMILE)**

2020 – 2021

*I volunteered for Seneca's mentoring program to help new Students to transition from high school and to ensure that they have the best chance for success.*

- Mentored 8 to 10 first year Seneca students and demonstrated leadership skills
- Taught how to prioritize studying while balancing other responsibilities, such as work or extracurriculars
- Discussed how to access various student resources and plan for success

## **REFERENCES**

*References are available upon request.*