JI YOUNG KIM

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TECHNICAL SKILLS

- **Languages:** Java, JavaScript/TypeScript, C#, C, Haskell, SQL, HTML, CSS
- **Tools/Frameworks/etc.:** Linux, Docker, GCP, Node.js, Express, NestJS, React, Redux, .NET, MySQL, PostgreSQL, MS SQL, MongoDB, Entity Framework, TypeORM, REST, GraphQL, JUnit, Mocha, Chai, Git, CI/CD, Azure DevOps, Jenkins, Datadog, Postman

WORK EXPERIENCE

Web Development Co-op, BGC Engineering, Vancouver, BC   Sep 2023 – Apr 2024
- Developed customized forms using **React** and Formik for real-time geohazard monitoring, enhancing data accuracy and user experience, and revamped **.NET** APIs to streamline **SQL** data migration for ~2 million rows
- Created customizable data tables for 200+ SaaS clients, improving user interaction and data management, and implemented authorized workflows and filters using **C#** and **Entity Framework** migrations
- Established authorization workflow for transportation clients, facilitating the granting of distinct permissions for various actions based on user types within the organization
- Worked with ESRI and GIS technologies to integrate and manage geospatial data, contributing to improved data visualization and geographic analysis capabilities

Backend Software Engineer Intern, Calabrio, Inc., Vancouver, BC   Jan 2023 – May 2023
- Enhanced AWS S3 integration in **Java** and **Haskell** for cloud-based file management by restructuring APIs, leading to a 15% reduction in server response time
- Monitored application performance using Datadog, tracking errors and troubleshooting issues to ensure system reliability and efficiency

Reservist, National Defence, Vancouver, BC   Nov 2016 – Dec 2019
- Served in the Canadian Army for over 3 years, developing skills in military operations and ethical values

PROJECTS

VanCity Property Pulse   May 2023 – Aug 2023
- Designed and implemented a full-stack web application, utilizing **React** and **Node.js** frameworks
- Developed real-time data visualization by integrating external APIs, showcasing dynamically updated information
- Handled authentication of the application with Node.js's passport library and its Google authentication strategy

Farm You   Jul 2022
- As a backend engineer, collaborated with frontend engineers to create an e-commerce website mock-up, implementing the backend functionalities with **TypeScript** and **NestJS**, utilizing **TypeORM**, **MySQL**, and other tools
- Tested the functionality of the APIs while building them, using the local database and **GraphQL** Playground
- Secured the application using Node.js' passport library (JWT) and password hashing with BCrypt

EDUCATION

Bachelor of Computer Science   Sep 2020 – Aug 2024
University of British Columbia, Vancouver, BC
- **Relevant Coursework**: Basic Algorithms and Data Structures, Intermediate Algorithm Design and Analysis, Introduction to Software Engineering, Introduction to Computer Networking, Introduction to Relational Databases
- Received the Athena Pathways Scholarships

Bachelor of Music, Piano Performance   Sep 2008 – Aug 2011
McGill University, Montreal, QC
- Received the Schulich Scholarship and the Entrance Scholarship