

# JI YOUNG KIM

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## TECHNICAL SKILLS

- **Languages:** Java, JavaScript, TypeScript, C#, Python, C, Haskell, SQL, HTML, CSS
  - **Tools/Frameworks/etc.:** Node.js, Express, NestJS, React, Redux, .NET, Django, Spring Framework, MySQL, MS SQL, MongoDB, SQLite, Redis, Entity Framework, TypeORM, JPA, REST, GraphQL, JUnit, Mocha, Chai, Linux, Git, Docker, GCP, Azure DevOps, Jenkins, Datadog, Postman, Pandas
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## WORK EXPERIENCE

**Web Development Co-op**, BGC Engineering Inc., Vancouver, BC Sep 2023 – May 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 and debugged customizable data tables for 200+ SaaS clients, improving user interaction and data management, and implemented 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

**Software Engineering 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
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## 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
- Configured secure user authentication with Passport.js, integrating Google OAuth for a seamless login experience

**Farm You** Jul 2022

- Implemented the backend functionalities with **TypeScript** and **NestJS**, utilizing **TypeORM**, **MySQL**, and **Redis**
  - Tested the functionality of the APIs while building them, using the local database and **GraphQL** Playground
  - Enhanced security by utilizing Passport.js with JWT for authentication and Bcrypt for encrypting user passwords
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## 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 Entrance Scholarship and the Schulich Scholarships