

# Youup Kim

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## Education

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### University of Calgary

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING

Calgary, Canada

Sep. 2017 - May. 2022

- Relevant Courses: Data Structures and Algorithms, Object-Oriented Design, Operating Systems, Software Architecture/Testing

## Skills

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**Programming Languages:** TypeScript, JavaScript, GraphQL, Java, C#, Python, C/C++

**Web Technologies:** React, Vue.js, Angular, HTML, CSS, JSON

**Databases:** MongoDB, Firestore, Oracle 11g, SQLite

**Platforms/Tools:** Google Cloud Firebase, Heroku, Git, SVN, Jupyter Labs

## Work Experience

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### Amazon

INCOMING SOFTWARE DEVELOPMENT ENGINEER INTERN

Vancouver, Canada

Jun. 2021 - Sept. 2021

### BMO Capital Markets

SOFTWARE DEVELOPER INTERN - GLOBAL MARKETS ENGINEERING

Toronto, Canada

Sep. 2020 - Dec. 2020

- Designed the UI and developed a web app using **React + TypeScript** for traders to use.
- Created an **Apollo GraphQL** server in **TypeScript** to store JSON data onto an **Oracle SODA** database.
- Migrated parts of a **C#** application to **Java** from scratch to grab real-time market data.

### University of Calgary

SOFTWARE DEVELOPER INTERN - DEPARTMENT OF CHEMICAL AND PETROLEUM ENGINEERING

Calgary, Canada

May. 2020 - Aug. 2020

- Spearheaded the design, implementation, testing, and deployment of a web application using **Vue.js**.
- Implemented BaaS(Backend-as-a-Service) model using **Google Cloud Firebase** for Authentication, Database, and Hosting.

### BMO Capital Markets

QUANTITATIVE SOFTWARE DEVELOPER INTERN - FIXED INCOME CURRENCIES & COMMODITIES

Toronto, Canada

Jan. 2020 - Apr. 2020

- Designed and built 5+ features using **Vue.js** and **Python** for a portfolio optimization/analytics website.
- Engineered a time-series forecasting model with 95% accuracy in **Python** for US Treasury Inflows/Outflows.

### JORI International

SOFTWARE DEVELOPER INTERN - OPENBORDER

Calgary, Canada

May. 2019 - Aug. 2019

- Designed the UI and built various pages of a web application using **Angular** and **C#** with **MongoDB**.

## Projects

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### WebChat

PERSONAL PROJECT - REACT, EXPRESS, NODE.JS

- Video chat website using Twilio Video API.

### Property Rental Management System

COURSE FINAL PROJECT - JAVA, SQLITE

- A multi-threaded application to simulate a PRMS with landlords, property managers, and tenants with application of various design patterns and socket programming.