

MINCHAN KIM

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TECHNICAL COMPETENCIES

Languages Python, C, Java, MATLAB

Containers Docker

OS Ubuntu, Linux

Testing Mocha, Chai

Cloud AWS (S3, RDS, ECS, EC2, Lambda, CodePipeline)

Database PostgreSQL, Relational Algebra, Redis

Version Control Git

Machine Learning Tensorflow, Scikit-Learn, Keras, Pandas

Web Development Django, Flask, Spring Boot, HTML, CSS, Javascript, Typescript, Angular, React, WebGL, Three.js

WORK EXPERIENCE

Temerity Analytics

May 2022 – Present

Full-stack Software Engineer / Data Analyst

Full-stack Software Engineer

- Utilized Django, Python, Angular, Typescript, HTML, CSS, JavaScript, and AWS services (ECS, Lambda) to develop and maintain web applications.
- Led the development of the client section of the platform's admin system, automating the backend processes for new client setup and onboarding, which previously required manual intervention.
- Achieved a reduction in load times and developer workload by automating client onboarding, improving the overall user workflow.
- Collaborated closely with the company's designer to integrate frontend icons and themes, ensuring a cohesive and user-friendly interface.

Data Analyst

- Employed PostgreSQL and Python for data analysis and automation.
- Implemented a data-pulling script to automate data collection, integrated with AWS cloud services to enhance efficiency.
- Managed the end-to-end process of gathering, inserting, verifying, and testing client data, enabling a fully automated data flow.
- Enabled 100% data coverage, to different clients from different countries.
- Reduced manual data handling by approximately 99%, allowing the platform to support new data types and locations seamlessly.

Softeem Emphasis Inc.

Sep 2021 – Apr 2022

Computer Vision Engineer

- Worked closely with the client to learn about different computer vision knowledge and methods.
- Introduced to computer vision and multiple machine learning models.

Pinch Financial Inc.

May 2021 – Aug 2021

Software Engineering Co-Op

- Worked both frontend and backend using React and Java Spring Boot.
- Collaborated with one of the biggest banks and mortgage providers in Canada.
- Gained experience in the company's "testing and automation" section, and frontend testing with Mocha and Chai.
- Successfully implemented multiple features to the company's website/white labels, requiring Java Spring Boot, React, JavaScript, HTTP request methods, and microservices.

Softeem Emphasis Inc.

Sep 2020 – Apr 2021

Web Developer Intern and Team Lead

- Worked on the VOIP telecommunication website.
- Managed and oversaw the project as a general and technical team leader.
- Developed both front-end and back-end components.
- Successfully applied experience from personal projects to real-world applications through the internship.
- Implemented functionality with REST API endpoints to Twilio, enabling multiple telecommunication services.
- Developed a thorough understanding of telecommunication and VOIP in relation to website development.

EDUCATION

University of Toronto

Sep 2019 – Present

Bachelor of Applied Science in Engineering Science (BASc in EngSci)

Minor: Engineering Business

Certifications

- NVIDIA - Fundamentals of Accelerated Computing with CUDA Python
- NVIDIA - Fundamentals of Deep Learning
- IBM, Coursera - Exploratory Data Analysis for Machine Learning

PROJECTS

University of Toronto Blue Sky Solar Racing

Jan 2023 – Present

Software Team

- Dockerized the codebase.
- Built a website that monitors all the data from the vehicle telemetry.

University of Toronto Aerospace Team

Sep 2019 – Apr 2020

Attitude Determination and Control System

- Conducted general research on the concept of ADCS and different methods used for attitude control.
- Performed detailed research and design on ADCS actuators and attitude control, exploring various methods available for attitude control and implementations for each method.