Kaitlyn Lee

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Skills

Languages
Python, C++, Java, HTML, CSS, JavaScript, TypeScript, Elixir

Technologies
Docker, K8S, React, Pandas, Django, GraphQL, Git, Linux, CI/CD, Bootstrap, Eclipse

CAD Software
SolidWorks, SolidWorks FEA, AutoCAD, KiCad

Education

Mechatronics Engineering
University of Waterloo | 2018 - 2023

Français Langue Étrangère
Université Laval | Jul - Aug 2018

Hackathons

Hack the North, QHacks, StarterHacks

Achievements

President's Scholarship
University of Waterloo | Sep 2018

Top 25% - Canadian Computing Competition Junior
University of Waterloo | Feb 2018

Coursework

- Algorithms and Data Structures (C++)
- Microcontrollers and Digital Logic
- Circuits
- Engineering Design

Languages

French | working proficiency

Experience

Software Development Intern | Raven Telemetry
May 2019 - Aug 2019

- Collaborated with data science and operations teams to create and automate reports, saving 3h/week using **Pandas**, **Docker**, **Kubernetes**, and **AWS**
- Implemented strict parameter checking and performed unit testing to ensure API calls are correct and valid using **Python**, **GraphQL**, **React**, and **Django**
- Worked with an agile, cross-functional, test-driven team to create new frameworks for frequent customer requests
- Created Python scripts and tests and integrated projects into CI pipeline to decrease time spent on daily tasks by up to 50%

Electrical, Guidance Engineer | Waterloop
Sep 2018 - Present

- Created schematics for current-sensing modules and coordinated with team to integrate them onto a power board
- Collaborated with team to iterate on the guidance and suspension system design using **SolidWorks** and created drawings adhering to GD&T
- Conducted Finite Element Analysis on wheel system using **SolidWorks FEA** to ensure adherence to safety requirements

Projects

SpecZo | Hack the North
Sep 2019

- Applied Google Cloud's Natural Language API to predict articles' topic and sentiment using Python
- Used **JavaScript** to plot users' most frequented types of articles based on topic and bias onto a Chrome Extension

eKnock | StarterHacks
Jan 2019

- Implemented the Spotify Recommendations **RESTful API** to search and filter for songs based on valence value (mood)
- Used **Android Studio** to authenticate Spotify user and to return the song to the app user

Solitaire Game | School Project
Jan 2018

- Used **Object-Oriented Programming** in **Java** to create a Solitaire game applet