Keaton Lees

klees@uwaterloo.ca
keatonlees.com/portfolio

[in] /keatonlees
[GitHub] /keatonlees

Experience

Jamlabs Data Science

Jan. 2022 - Apr. 2022

Software Engineer

Optimized numerous features to increase efficiency by 75% using React, Redux, Node.js and AWS DynamoDB

Implemented Stripe to decrease payment transaction times and automatic invoicing by 99%

Tracked user experience and improved application process flows by 36% by including Google Analytics

Self Employed

May 2021 - Aug. 2021

Full-Stack Developer 🔗 ⌂

Launched a flexible to-do list application, increasing productivity by 28% using React, Node.js and MySQL

Implemented user authentication using Firebase and deployed completed application to Heroku

Ballard Power Systems

Aug. 2020 - Dec. 2020

Systems and Controls Engineer

Maintained sensor database of over 300 fuel cell modules by constructing numerous Python scripts

Responsible for assembling and testing over 35 unique components for use in prototype fuel cells

Ballard Power Systems

Jan. 2020 - Apr. 2020

Systems Engineer

Created hydrogen fuel cells scripts using Python and microcontrollers to decrease testing times by 40%

Projects

Jarvis Smart Clock

Flask, HTML, CSS, Javascript, Python, Raspberry Pi

Personal Project ⌂

Developed a personal web-based smart clock using HTML, CSS and Javascript running on a Raspberry Pi

Implemented weather, music and alarm widgets using Python and Flask

Puppr

HTML, CSS, Javascript, Python, Flask, Firebase

TOHacks 2020 Hackathon ⌂

Developed Puppr, a digital web platform to connect dog-lovers with adoption agencies to adopt dogs

Applied live web-scraping to keep the available dogs up-to-date using Python and Firebase

Arcade Donkey Kong

Java, HTML

Personal Project ⌂

Integrated external gyroscopic controls into an adaptation of the original 80s Donkey Kong arcade game using Java, JGEngine and HTML

Skills

Languages: Javascript/ Typescript, HTML5, CSS3, Python, C#, C++, Java

Frameworks and Libraries: React, Redux, Node.js, Flask, Bootstrap

Tools: MySQL, AWS, Firebase, Heroku, Unity (C#), Git, 3D-Printing, Raspberry Pi, Figma

Education

University of Waterloo

Systems Design Engineering

Bachelor of Applied Science

2019 - 2024

GPA: 3.9/4.0

Relevant Courses: Digital Computation, Data Structures and Algorithms, Digital Circuits

Interests and Hobbies

Technology and DIY Computers

3D-Printing and 3D-Modeling

Taekwondo - 3rd Degree Black Belt

Track and Field - Athlete, Coach and Official

Volleyball - Athlete and Coach