

winnie ren

Systems Design Engineering '22 | University of Waterloo

experience

Software Engineer | Groq Inc Mountain View, CA | May '19 - Aug '19
Angular, TypeScript, Python, Haskell, GCP

Created a chip monitoring Angular app with live data visualization using d3.js through a Python Flask server via Socket.IO; expedited chip bring-up by 2 months

Designed and developed isomorphic Haskell web application for internal project management of 70 employees deployed on Google Cloud Platform

Ensured application's robustness through unit testing with Karma, allowing the Angular app to be demoed as part of core product to key stakeholders

Full-Stack Developer | WSIB Lab Kitchener, ON | Sep '18 - Dec '18
React, JavaScript, mySQL, React Native, Sketch

Reduced hearing loss claim process by 4 months through designing and developing a responsive React web app with SQL database deployed on EC2

Integrated Google Maps API to implement an audiologist appointment scheduler based on user's location; forecasted to be used by 200+ clinics and their patients

Accelerated development process by 50% through establishing design guides and initiating agile processes for the co-op team

Technical Project Lead | UW Blueprint Waterloo, ON | Aug '19 - Present
Python, OpenCV, Tensorflow

Scoping the technical requirements for a non-profit project measuring microplastics in liquid through image processing and machine learning

Leading a team of 6 developers and 2 designers, creating timelines and project roadmaps while identifying task complexity with story points

Front-end Developer | UW Blueprint Waterloo, ON | Sep '18 - Aug '19
React, Angular, JavaScript, Cloud Firestore

Developed a React web app for nonprofit client's dance competition with Google Firebase and Firestore managing records of 300+ performances

Led a remote team of 6 with development of Angular website, showcasing club initiatives to thousands of students

Front-end Developer | Seneca College Markham, ON | Jan '18 - Apr '18
HTML/CSS, JavaScript, Adobe Creative Suite

Collaborated with professors to design and develop 36 HTML and JavaScript web-based modules following accessibility guidelines for over 300 students

leadership

Sponsorship Director | CUSEC Montreal, ON | Apr '19 - Present

Raising \$100k through negotiation with key stakeholders for the 17th annual Canadian Undergraduate Software Engineering Conference

Co-Chair | Enghack '18 + '19 Waterloo, ON | Jan '18 - Jun '19

Led a team of 15 to grow a 24 hour hackathon's sponsorship and attendance by 20% to 350 participants and \$20k in sponsorships

winnieren.com

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skills

Development

JavaScript, TypeScript, HTML/CSS, React, Angular, Python, C++, Haskell

Kubernetes, Docker, AWS, Cloud Firestore, Firebase

Design

Sketch, Figma, Adobe Creative Suite, InVision

Usability Testing, User Research, Accessibility Design

awards

1st @ UW Product Challenge

Data-driven redesign increasing user engagement for a local start-up (out of 120 contestants)

2nd @ Microsoft ProdCon

Collaborative education solution with OneNote to drive Surface sales (out of 15 Teams)

2nd @ DeltaHacks IV

Android app w/ Arduino triggering motor - Findr (out of 600 hackers)

projects

Finance Tracker '19 | Python

Script tracking ride-share spending across multiple statements in different currencies

Focus '18 | C++, Arduino

Ambient noise tracking hardware with volume triggered LED lights to track noise for study spot locating app

Findr '17 DeltaHacks | Android

Leveraged white paper research to optimize app design for crowd management Android app (2nd place winner)

interests

Women in STEM, Event Planning, Solo Travelling, Cheesecakes