

Gabby Chan

✉ g44chan@uwaterloo.ca



linkedin.com/in/yccgabby

📧 devpost.com/yccgabby



medium.com/@yccgabby

🖱 yccgabby.me



github.com/yccgabby

Work Experience

TECHNICAL SYSTEMS ANALYST

RBC Capital Markets

January 2020 - April 2020

- Developed end-to-end RESTful clients in Spring, Python and Node.js to support data services critical to stock pricing/valuation engines
- Built Continuous Integration pipelines using Jenkins and Apache Groovy to automate builds, 30+ unit tests and global deployment
- Applied agile project management skills and managed tasks on Jira

AUTONOMOUS VEHICLE ENGINEERING INTERN

Martinrea International

June 2019 - August 2019

- Modelled and prototyped an autonomous vehicle to streamline material delivery and support flexible production line in SolidWorks
- Programmed the vehicle's driving behaviour by integrating C++ code into existing Java infrastructure using the Java Native Interface

SOFTWARE DEVELOPER

ConversationHEALTH

June 2018 - March 2019

- Designed an AI-powered chatbot (EmojiHEALTH) in JavaScript and Botpress leveraging natural language processing to engage teens in achieving better health and wellness
- Wrote user profiles and designed conversation flow canvases to identify user needs and deliver digestible, relevant content
- Doubled # of subscribers to 20,000, maintaining >90% read rate

Extracurriculars

BACKEND DEVELOPER

Stanford Response Innovation Lab 🔗

- Creating COVID-NOW, a news and data reporter for COVID-19 to display cutting edge news summaries, visualizations, and public health information translating data for public awareness
- Developing full-stack React & Kotlin app to determine credibility of news articles using Pytorch and machine learning libraries

TECHNOLOGY LEAD AND FRONT END DEVELOPER

Canadian Undergraduate Tech Conference 🔗

- Working with executive members to organize online conference to promote the interdisciplinary applications of technology
- Designing and implementing conference website following best responsive design practices in JS/HTML/CSS
- Developing a Flask bot to increase social media engagement

Skills

Languages: Java, Python, JavaScript, HTML/CSS

Frameworks/Databases: Spring Boot, Node.js, MongoDB Atlas/Stitch, JUnit

Management: Jira, Confluence, Agile framework

Tools/Services: Jenkins, Azure, Git, Unix

Projects

WELLNOTE 🔗

JavaScript, MongoDB, HTML/CSS

- Developed a computer vision-assisted analytic service to decipher user emotions in videos using the Affectiva SDK and JavaScript
- Transferred and transformed analytical data into information with MongoDB Atlas/Stitch

BRACE 🔗

C++, Swift, Twilio API

- Created an iOS mobile app to parse JSON data into mobile-friendly view of patient information with a Twilio notification system
- Integrated app with medical bracelet prototype with RFID sensor coded in Arduino

Awards

2020 DeltaHacks - Best MongoDB Hack (WellNote)

2020 SheHacks - Best Health Hack (Brace)

2019 RBC NGI Hackathon - Best Overall Hack

2019 Two Small Fish Ventures - STEM Scholarship

2019 UWaterloo - Raaflaub Family Scholarship

Education

UNIVERSITY OF WATERLOO

Systems Design Engineering, Academic Rep

- Microsoft Campus Partner
- **Courses:** Digital Computation, Data Structures and Algorithms (in progress), Cognitive Science

Interests

- Playing piano (15 yrs)
- Dancing (ex-captain)
- Brewing coffee (ex-Barista at Starbucks)
- Presenting (business case competitions)