Gabby Chan

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Skills

Languages: Java, C++, Python, JavaScript, HTML/CSS
Frameworks/Databases: Spring Boot, Node.js, MongoDB Atlas/Stitch, JUnit
Management: Jira, Confluence, Agile methodologies, Scrum framework
Tools/Services: Jenkins, Microsoft Azure, Git/Github, Unix/bash scripting

Projects

WELLNOTE 🔗
Javascript, MongoDB, HTML/CSS

- Developed a computer vision-assisted analytic service using the Affectiva SDK, JavaScript and HTML/CSS to decipher user emotions in videos
- 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 with medical bracelet prototype with RFID sensor coded in Arduino/C++

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

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

Work Experience

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TECHNICAL SYSTEMS ANALYST
RBC Capital Markets
January 2020 - April 2020

- Developed end-to-end RESTful clients using Spring Boot, Python and Node.js to support data services critical to the pricing/valuation engines for front desk trading divisions
- Created a custom ICE file parser to generate Python source code
- Built Continuous Integration pipelines using Jenkins and Apache Groovy to automate builds, unit tests and 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 industrial autonomous vehicle using Solidworks to streamline material transportation and implement flexible production line in a factory setting
- Programmed the vehicle's decision making behaviour when driving around the factory 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
- Doubled # of chatbot subscribers to 20,000, maintaining >90% read rate
- Conducted credible research to deliver relevant medical content
- Wrote user profiles and designed user conversation flow canvases

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
- Using machine learning libraries in Pytorch to algorithmically determine credibility of news articles scrapped from user input key words

TECHNOLOGY LEAD AND FRONT END DEVELOPER
Canadian Undergraduate Tech Conference 🔗

- Working with executive members to organize online conference promoting the interdisciplinary applications of technology
- Designing and implementing conference website following best responsive design practices in JS/HTML/CSS
- Developing an Instagram bot in Selenium and Python to monitor and increase audience engagement during promotional campaigns
- Organizing online Microsoft Teams platform to host video conferences