GABBY CHAN

Eager learner. Critical thinker. Ambitious innovator.

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WORK EXPERIENCE

Technical Systems Analyst
Jan 2020 - April 2020
RBC Capital Markets

- Developed end-to-end RESTful clients using Spring Boot, Python and Node.js to support data services critical to the pricing /valuation engines for 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
- Worked in a Jira Agile development process using a test-driven approach

Autonomous Vehicle Engineering Intern
June 2019 - Aug 2019
Martinrea International

- 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
June 2018 - Mar 2019
ConversationHEALTH

- Designed AI-powered chatbot (EmojiHEALTH) in Botpress and Javascript leveraging natural language processing to engage teens in achieving better health and wellness
- Doubled number of chatbot subscribers to 20,000 and maintained >90% read rate
- Conducted credible research to deliver relevant medical content targeting teen users
- Wrote user profiles and designed user canvases to direct conversational flow

PROJECTS

WellNote
Deltahacks 2020
Javascript, MongoDB, HTML/CSS

- Developed a front-end computer vision-assisted video 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
SheHacks 2020
C++, Swift, Twilio API

- Created an iOS mobile app using Swift in Xcode to parse JSON data into a mobile-friendly view of patient information and Twilio to implement notification system
- Integrated with medical bracelet prototype with RFID sensor coded in Arduino/C++

EXTRACURRICULARS

Technology Lead
Oct 2019 - Present
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
- Developing an Instragram bot in Selenium and Python to monitor and increase audience engagement during promotional campaigns
- Organizing online conference platform in Microsoft Teams to host video streams and workshops

SKILLS

Languages: Java, C++, Python, Javascript, HTML/CSS, Groovy

Frameworks/Databases: Spring, JUnit, MongoDB Atlas/Stitch, NodeJS

Management: Jira, Confluence, Agile methodologies, Scrum framework

Tools/Services: Jenkins, Microsoft Azure, Git/Github

AWARDS

Best MongoDB & Health Hack - WellNote
Deltahacks 2020

Best Health Hack - Brace
SheHacks 2020

Best Overall Hack - DriveGreen
RBC Next Generation Innovation 2019

$2000 STEM Scholarship
Two Small Fish Ventures

Top 10 International Finalist
DECA Marketing Communications 2019

EDUCATION

University of Waterloo
Systems Design Engineering

- Microsoft Student Partner
- Academic representative of SYDE class of 2024
- Mechanical designer of Watonomous, university autonomous car design team
- Waterloo 2019 Recipient of Raaflaub Family Scholarship for Women in STEM

Courses: Digital Computation, Data Structures and Algorithms (in progress), Linear Algebra I

INTERESTS

- Playing piano (15+ years)
- Brewing coffee/latte art (Ex-barista)
- Creative writing (Writer @ *The Startup*)
- Public speaking (Case competitions)
- Dancing (contemporary, hip hop)