GABBY CHAN

Eager learner. Critical thinker. Ambitious innovator.

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Ⓜ https://medium.com/@yccgabby

WORK EXPERIENCE

Technical Systems Analyst
Jan 2019 - Present
RBC Capital Markets

- Building a client tha follows REST principles using Java Spring to support data services critical to the pricing /valuation engines for Structured Products & Rates trading divisions

Autonomous Vehicle Engineering Intern
June 2019 - Aug 2019
Martinrea International

- Designed an industrial autonomous vehicle using Solidworks to streamline material transportation and implement flexible production line in factory setting
- Integrated C++ code into Java software using the Java Native Interface to program the vehicle's decision-making when moving around the factory

Software Developer
June 2018 - Mar 2019
ConversationHEALTH

- Optimized code framework in Javascript to build an AI-powered chatbot to deliver information backed by credible medical research to teen users
- Doubled number of chatbot subscribers to 20,000 and maintained >90% read rate

PROJECTS

WellNote
Javascript, MongoDB, HTML/CSS
Deltahacks 2020

- 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
C++, Swift, Twilio API
SheHacks 2020

- 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++

DriveGreen
Unity/C#, HTML/CSS
RBC NGI 2019

- Utilized the Unity game engine to generate a VR electric car simulator in C# to empower youth to drive sustainably, accompanied by a website coded in HTML/CSS

EXTRACURRICULARS

Compute Rack Designer
Sept 2019 - Dec 2019
WATonomous

- Redesigned a multi-level structure, named the "Compute Rack", utilizing Solidworks to optimize the placement of mounted hardware devices in the trunk of the autonomous car
- Assembled the new compute rack with carbide tools to precisely cut strips of metal

SKILLS

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

Frameworks/Tools: Spring, Jenkins, Azure, MongoDB Atlas/Stitch, Arduino, JUnit, Git/Github

AWARDS

Best MongoDb & Health Hack
Deltahacks 2020

Best Health Hack
SheHacks 2020

Best Overall Hack
RBC Next Generation Innovation 2019

New York Academy - Finalist
Junior Academy Genomics Challenge

$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
- Waterloo 2019 Recipient of Raaflaub Family Scholarship for Women in STEM

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

INTERESTS

- Playing piano (15+ years)
- Brewing coffee/latte art (Ex-barista)
- Creative writing (Writer @ *The Startup*)
- Public speaking (Case competitions)
- Biking (mixed terrain)