YU CHENG LI

Computer Science Major, 3rd Year

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EDUCATION

University of British Columbia, Bachelor of Science, Computer Science Major   Sep 2020 - present

WORK EXPERIENCE

Software Developer Intern   Sept 2022 - April 2023
Royal Bank of Canada   *Toronto, On*

- Developed and maintained software automation solutions using Python and Robot Framework for streamlined backend software testing
- Re-engineered the organization's Python codebase for PyAutoGUI, aligning to the latest software features
- Automated and optimized over 70+ software test scenarios, improving reliability and increasing testing efficiency by 40%
- Participated in weekly Agile meetings using Jira for efficient Scrum collaboration

TECHNICAL PROJECTS

Subletter, Virtual Marketplace | *JavaScript, MySQL, NodeJS, Express, ReactJS, CharkraUI*   August 2023
- Designed and implemented a web application that provides a dedicated virtual marketplace for students to effortlessly list and rent out sublets within the university community
- Employed React, ChakraUI for frontend; Express, MySQL for backend, ensuring seamless database operations
- Engineered a real-time messaging functionality using Socket.IO, enhancing user communication

Resume Builder, Web-based Resume Generation Tool | *JavaScript, ReactJS, HTML5/CSS3*   May 2023
- Created a responsive resume builder web app using React.js that generates professional looking resumes
- Enabled easy to use, one-click resume to PDF download feature using React-PDF
- Implemented a live resume preview feature that accurately displays the appearance of the final PDF

BattleSnake, AI | *Python, Matplotlib, DigitalOcean*   April 2023
- Led a team in the development of a snake AI that won 2nd place in RBC's 2023 BattleSnake AI Competition
- Implemented AI algorithms including MinMax and heuristics to enable the snake to look up to 7 steps ahead
- Created a visual tool using Matplotlib and Networkx to enable easy visualization of the AI's decision tree

Spotify Collage, Web Application | *Python, HTML5, CSS3, Flask, Bootstrap*   Jan 2022
- Developed a web app that transforms Spotify album data into visually appealing collages
- Leveraged Spotify's API to collect necessary artist and song data, enabling the app to create personalized collages for each user based on their music preferences
- Designed a user-friendly interface featuring a simple, intuitive design using Bootstrap and Flask

Navi-bot, ChatBot | *Python, JSON*   Jan 2023
- Developed a Discord bot to help UBC students navigate the university's complex degree requirements
- Created a file manager that stores degree requirements in JSON format, enabling the bot to retrieve and display accurate information based on user input
- Utilized Discord.py library with the bot to facilitate seamless communication and interaction with student

TECHNICAL SKILLS

Programming: *Java, Python, JavaScript, TypeScript, HTML5, CSS3, C, C++, SQL, Node.js, React, Express*

Tools/Environment: *VScode, Git/GitHub, JetBrains Suit, Linux, Eclipse*