

CALVIN ZHENG

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EDUCATION:

Queen's University - Computer Science

Kingston, ON

Sep 2021 – Present

- Bachelor of Computing (Honours) - Specialization in Artificial Intelligence

WORK EXPERIENCE:

TD Bank - Software Engineer Intern

Toronto, ON

May 2023 - Aug 2023

- Developed C# and ASP.NET front-end and back-end software to optimize user experience and efficiency on a client-facing web application
- Implemented user interface features to reduce clicks and ease navigation, improving the average time for a user to complete a flow by 20%
- Utilizing Jira for task management and Git and BitBucket for version control while collaborating in an Agile team of 8 members, participating in daily stand-ups and bi-weekly sprint retrospectives and demo meetings

Royal Bank of Canada - Software Developer Intern

Toronto, ON

July 2021 - Sep 2021

- Led a 4-member team to architect and implement the front-end software for a client-facing web application, using Angular and TypeScript
- Organized Agile methodology ceremonies including daily stand ups, weekly sprint retrospectives and demo meetings to ensure meticulous planning, organization, and maintenance of coding standards

Halton Environmental Network - Software Developer

Toronto, ON

Jan 2021 - Sep 2021

- Collaborated within a team of 3 to develop and maintain an automated data tabulation and notification system using Python, Google Sheets, Selenium, and cloud hosted on Heroku
- Ensured data accuracy by validating data between a dashboard and a Google Spreadsheet, autonomously updating the data and notifying users, ultimately saving 10 hours/week for 36 weeks

PROGRAMMING PROJECTS

smART - Machine Learning Art Recommender (Sep 2021):

- Built an art recommendation web application that uses a Convolutional Neural Network to output visually similar images compared to a user inputted image
- Developed using Python and Flask to build the front-end, and TensorFlow and AWS EC2 to build and train the model, this challenging and rewarding project was completed within a 48-hour time frame for Hack the North 2022

Floppa Finance - Web-Application to Improve Financial Literacy (Jan 2021):

- Developed a web-based application designed for the TU20 Cup Competition, aiming to provide better financial education for youth. This project utilizes a Python back-end, an HTML/CSS front-end, and uses the Flask Python package to seamlessly integrate these components.

Brain to Computer Interface (Jan 2023):

- Developed a machine learning classification model to identify and execute computer clicks by creating a binary control mechanism through reading brain activity associated with blinking
- Utilized Python and PyTorch to process brainwave data recorded from a user wearing an EEG. This data was then fed into a Support Vector Machine, enabling the user to play Flappy Bird using only the EEG's collected brain activity.

TECHNICAL SKILLS

- Languages/Frameworks: Python, Java, C#, JavaScript, Angular, React, TensorFlow, PyTorch, Flask, ASP.NET
- Developer Tools: Git/GitHub, Jira, Google Cloud Platform, AWS EC2, AWS S3, Azure, Docker, Asana