AMY TAI

Management Engineering 2022

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EDUCATION

4.0 GPA, B.A.Sc. in Management Engineering, University of Waterloo   Sept 2017 – Apr 2022
- Awarded First in Class Scholarship, EngSoc Leadership Excellence Award, President's Scholarship of Distinction.

AWARDS

Waterloo Technical Speaking Competition: Awarded 2nd place for my 12-minute presentation on real-time updates.

Infineon Smart Object Competition: Placed 1st out of 8 teams. Competitors were selected from 376 applications.

BEST Smart Technology Course: Earned 98% course mark due to Harvard Case Competition performance.

Waterloo Consulting Competition: Ranked 2nd out of 10 university teams in 6-hour long competition.

WORK EXPERIENCES

Backend Software Engineer Intern, Hypercare   April 2020 – Aug 2020
- Led the development, testing, and deployment of several microservices, including a task reminder bot, based on collected client requirements in under 2 weeks using MySQL, GraphQL, Node.js, and AWS.
- Managed the horizontal scale of the notifications server instances and decrease latency of real-time updates by an average of 99.5% using technologies such as JavaScript, Redis ElastiCache, and socket.io.

Software Engineer Intern, Honeywell   Sept 2019 – Dec 2019
- Constructed a real-time fleet tracking web app that was demoed to 11,000 companies at the largest aviation conference in the world by leveraging a tech stack that included React, Redux, TypeScript, Node.js, Bamboo, Jest, Enzyme and Bitbucket.
- Experienced software development life cycle including design, development, test, and delivery of the product through reviewing user stories, building web components and node microservices, and participating in live demos.

Co-President, Waterloo Entrepreneurship Society   Apr 2019 – Aug 2019
- Directed over $1,500 in funding and a team of 30 undergraduate students to execute a 6-hour start-up hackathon by collaborating with the executive team and strengthening partnerships with external entrepreneurial Waterloo organizations.
- Executed on 6 major projects that included a platform connecting students with available volunteer work at start-ups through inspiring the club's vision to 5 different functional teams working both remotely and on campus.

Chartered Professional Accountant Intern, PepsiCo Foods Canada   Jan 2019 – Apr 2019
- Nominated by Senior Director and Corporate Controller for Coop Student of the Year based on the successful digitization of 3 major business functions from manual processes to automated workflows using Visual Basic and SharePoint.
- Analyzed over 7 million kilograms of inventory fluctuations and saved over 120 hours per year by identifying system gaps through user interviews, creating user requirements with senior directors, and creating computerized dashboards.

PROJECTS

UWaterloo Fitness Assistant (Project Manager and Lead Developer)
- Led the two-month development of a web platform that used a decision tree structure, ReactJS and a Google Calendar API to generate fitness options given user constraints and preferences that directly updated the user's Google Calendar.

Stock Purchasing Recommendation System (Project Manager and Lead Developer)
- Utilized artificial neural networks, Excel Solver, and Visual Basic to create a model trained on 15 years of historical stock data that determined the optimal investment strategy given the user's specifications, earning the top course mark of 100%.

TECHNICAL SKILLS

- Java, SQL, AWS, JavaScript, JIRA, productboard, Python, Visual Basic, Dart, Flutter, R, PHP, GraphQL