JACK PAN

3A COMPUTER SCIENCE

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EXPERIENCE

Wish
Full Stack Engineer, Payments Team   Jan – Apr 2020
- Built a feature to forgive banned users based on interactions with Wish ads, resulting in gross merchandise value **increasing by $30K per week**
- Implemented retry functionality for failed payments from customers, with an annual projected recovery of **$45M**
- Developed a novel system centralizing the storage of over **50 million** customer payment details while adding no latency to the user experience
- Engineered features, experiments, and bugfixes server-side in **Python** using **Tornado** and client-side in **Javascript** with **React**, with a focus on reducing buyer risk and improving checkout experience

D2L
Software Developer   May – Aug 2019
- Improved NLP algorithm for generating quiz questions from text, increasing yield of acceptable questions by **~60%**
- Implemented major features for an in-browser free-hand PDF editor using **React** with **Redux** in **TypeScript**
- Built crucial backend functionality for users to add, edit, and save their uploaded documents following RESTful design using **Express** and **NodeJS**

DragonAgile
Software Developer   May – Aug 2018
- Developed a full-stack web app to manage user permissions for the version control software Perforce using **React, Node.js,** and **Java**
- Designed and built various plugins for Jira and Confluence using **Java**

PROJECTS

UWClasswatch
React, Node.js, Express, MongoDB, Mongoose
- Web app for UW students with **1500+ users** and highly positive feedback
- Scrapes online class registries to notify users when a class they are "watching" has a spot open for enrolment

Ceci
Python
- Interpreter for a programming language with novel features of my own design
- Composed of a context-free grammar, a lexer, an LL(1) parser, and an evaluator all designed and built from scratch

SKILLS

Languages:
Python
JavaScript/Typescript
C++
SQL

Frameworks & Tools:
Flask
Tornado
NodeJS
Express
React
Redux
MongoDB
Mongoose
Docker

AWARDS

PennApps Award Winner
2019
Best AR/VR Project

Hack the 6ix Finalist
2018
Top 10 of 65 teams

Dean's Honour's List
Terms 2A, 2B, 3A
87%+ term average

UW Scholarship of Distinction
2017
95%+ admissions average

EDUCATION

University of Waterloo
Bachelor of Computer Science, 2017-2022
3.94/4.0 GPA