JACK PAN

COMPUTER SCIENCE STUDENT

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WORK EXPERIENCE

Software Developer, D2L

May – Aug 2019

- Improved NLP algorithm to generate questions from text, increasing yield of acceptable questions by **~60%**
- Led a technical team in the end-to-end design and development of a PDF annotator
- Achieved a zero-downtime migration of a staging **Mongo** database to a new **Mongoose** schema
- Implemented major frontend features using **React** and **Redux** in **TypeScript**
- Built crucial backend functionality following RESTful principles using **Express** and **Node.js**

Software Developer, DragonAgile

May – Aug 2018

- Developed full-stack web app to manage permission entries for Perforce using **React, Node.js,** and **Java**
- Designed and built plugins in **Java** for Jira and Confluence according to client specifications

AWARDS

PennApps XX Award Winner, 2019
Best AR/VR Hack

Hack the 6ix Finalist, 2018
Top 10 of 65 teams

Dean's Honour List, Fall 2018, Winter 2019
87%+ term average

EDUCATION

Candidate for Bachelor of Computer Science
University of Waterloo
Anticipated graduation in 2022

SKILLS

Languages:
JavaScript, TypeScript, C++, C, Java, Kotlin, Python, Ruby

Frameworks:
React, Redux, Express, Mongoose, Rails

Technologies:
Node.js, MongoDB, Docker, React Native, Git

PROJECTS

UWClassWatch

React, Node.js, Express, MongoDB, Mongoose

- Web app for UW students with **1500+ users** and highly positive feedback
- Emails users when a class they are "watching" has a spot open for enrollment

claire | Finalist at Hack the 6ix

React, Node.js, Express, Firebase

- Chatbot aimed at reducing loneliness among seniors
- Performs sentiment analysis on conversations to collect metrics on mental wellbeing

CharityChain

React, Firebase, Solidity

- Online platform for charities to receive and spend donation money
- Tracks charity expenses in an Ethereum blockchain and displays analytics to users

JAKE

C++

- Algorithm to extract key phrases from text
- Modified RAKE algorithm to factor in neighbour popularity and long stretches of low-scoring words