

DENZEL KWAN

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WORK EXPERIENCE

Index Exchange, Software Engineering Intern Jan – Apr 2018

- Rebuilt legacy API in Gin after researching Golang backend frameworks with a focus on monitoring, ease of development, and testing
- Implemented database health checking endpoints that monitor the connection status using Golang
- Eliminated technical debt by leading a vital production investigation concerning a redeployment of updated database containers
- Contrasted current company and community agile practices, providing insight and suggested potential improvements through an internal engineering blog

Index Exchange, Software Engineering Intern May – Aug 2017

- Improved team productivity by **15%** by leading the team as Scrum Master to identify bottlenecks through developing a web app using Flask to pull data from JIRA to evaluate team performance
- Integrated partner modules for the JavaScript framework that manages ad space bidding, allowing new publishers to use real-time ad auctioning
- Reduced testing time by **75%** by building a regression suite using Intern to eliminate manual testing

Digiflare, Product Owner Intern Sept – Dec 2016

- Launched the CenturyLink and Showtime Over-the-Top apps to **10M+** users, guiding the team as an active liason between the clients and the Roku development team
- Equipped the team with more authority over requirement deadlines by fostering trusted relationships with senior clients through daily syncing and leading project demos
- Shortened the project timeline by **2 weeks** by re-allocating resources within the team's sprint cycle

CGI Group, Technical Analyst Intern Jan – Apr 2016

- Developed re-usable front-end components for CIBC's online banking application using AngularJS for **11M+** users worldwide

PROJECTS

Capstone Design Project for Air Canada May 2018 – Present

- Reduced **50%** of the labour hours by designing a scheduling tool in Python, formulated in optimization models constructed from heuristics and linear programming, eliminating manual scheduling

Fed Bus Route Expansion Proposal Apr 2018 – Present

- Analyzed high demand travel destinations by scraping carpool data from Facebook using Python and NLP to propose an expansion of the range of bus destinations offered

EDUCATION

University of Waterloo Graduating Jun 2019

Honours Bachelor of Applied Science in Management Engineering, Statistics Option

TECHNICAL SKILLS

Languages Python, Java, SQL, JavaScript

Tools Docker, Git, Flask, Android Studio, JIRA, AngularJS