DENZEL KWAN

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EDUCATION

University of Waterloo   Sept 2014 - May 2019
- Honours Bachelor of Applied Science in Management Engineering with Distinction

EXPERIENCE

Index Exchange, *Senior Software Engineering Intern*   Sept – Dec 2018
- Implemented data aggregation API to automate log reports, saving up to **10** hours a week
- Wrote extensive unit tests using Ginkgo to ensure high code coverage on all assigned features
- Designed and implemented user forms for blacklisting and whitelisting ad servers

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
- Led a vital production investigation to update several database containers to eliminate technical debt
- 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 liaison between the clients and the Roku development team
- Equipped the team with more authority over deadlines by fostering trusted relationships with senior clients through daily communication and leading project demos
- Initiated a team re-organization to re-allocate resources to shorten the project timeline by **2 weeks**

Ambassadors for Christ, *Event Coordinator Volunteer*   Aug 2013 – Mar 2014
- Directed a yearly conference for teens with **1000+** attendees and **200+** volunteers
- Minimized scheduling delays by constantly communicating with workshop speakers

PROJECTS

Capstone Design Project for Air Canada   May 2018 – Present
- Applied construction heuristics in the design of an optimal scheduler to reduce labour hours by **50%** and eliminate manual scheduling
- Led the technical decisions and code reviews for the development of the scheduling web-application

TECHNICAL SKILLS

Languages	Python, SQL, Golang, Java, JavaScript
Tools	Docker, Git, Flask, Android Studio, JIRA, AngularJS