Bill DuGe

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EDUCATION

University of Waterloo
BCS, Computer Science
Co-op Program
3.94 Faculty GPA
September 2018 - Present
Waterloo, Ontario

Most Relevant Courses
- Algorithms
- Object Oriented Software Development
- User Interfaces
- Data Structures and Data Management
- Operating Systems
- Database Management
- Logic and Computation

SKILLS

Languages
Python • JavaScript • TypeScript • C++ • C Java • Golang • CSS • HTML • SQL

Technologies/Tools
Node.js • Express • React • Redux • Django • AWS Bootstrap • MongoDB • jQuery • Kubernetes Docker

AWARDS
- UW Dean's Honours List
- UW President's Scholarship of Distinction
- High School Valedictorian (97% Average)
- UofTHacks (2019) Top 10 Project Award
- UW Cayley Math Contest Honour Roll (Top 0.8%)

EXPERIENCE

Wish Software Engineer Intern | San Francisco, California
January 2021 – April 2021 | Product Web Team
- Developed a scratch card component and integrated it with internal payment system to distribute discount and cash incentives to improve customer retention after delayed shipments
- Built buy-again feed to recommend products based on reorder probability data, resulting in an increase in company GMV and implemented lazy loading on order history page to improve loading times by 50%
- Worked efficiently in scrum environment across teams to deliver product features for desktop and mobile clients using Python and TypeScript (React and Redux)

May 2020 – August 2020 | Logistics Team
- Created Python services to resolve shipment issues, gather shipping data, and optimize item packaging to facilitate shipping, which often required writing efficient queries for MongoDB and SQL databases
- Developed APIs to generate product recommendations for different shipment fulfillment options that merchants can select to improve delivery speed
- Improved our merchant dashboard by building new React components to modernize the user experience

Youreka Canada Software Engineer | Remote
November 2019 – Dec 2020
- Designed and built a full stack application with Django and MySQL from the ground up, allowing employees to evaluate program applicants on an organized platform, increasing the efficiency of application processing by 30%
- Oversaw site deployment, hosting, and maintenance processes to ensure a smooth roll-out to employees once recruiting began

Connected QA Automation Developer Intern | Toronto, Ontario
May 2019 – August 2019
- Spearheaded development of a Python command line tool to automate submitting test suite results, reducing time spent on QA testing by 40%
- Built desktop application using Electron to test an Amazon Alexa voice application, providing a framework to easily test different conversation flows and quickly view results after executing tests

PROJECTS

Juke Jam | Express, SocketIO, React, Redux, SemanticUI, MongoDB
juke-jam.com | github.com/bduge/juke-jam
- Web application to streamline how you play music with friends. Users can join a private room and add songs to a shared queue where songs are sorted to be played on the host's selected device based on the collective votes
- Built an Node.js/Express server to: allow a host device to play music by making Spotify API calls, authenticate accounts with the OAuth 2.0 protocol, and manage room data using a MongoDB database
- Developed client-side and server-side logic to handle client connections and server events with SocketIO to sync clients with the global app state