Bill DuGe

billduge11@gmail.com | 780-660-8128
billduge.com | github.com/bduge | linedkin.com/in/bill-duge

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 • Selenium

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 – Present | Product Web Team

- Built buy-again feature to recommend products with high reorder probability to customers by implementing APIs and managing recommendation data in Redux state, resulting in increased item purchases
- Developed user facing web features on both desktop and mobile clients using React and Redux in TypeScript, improving the post-purchase user experience

May 2020 – August 2020 | Marketplace Logistics Team

- Created Python services to resolve shipment issues, gather shipping data, and optimize item packaging to facilitate efficient shipping
- Developed APIs to generate product recommendations for different shipment fulfillment options that merchants can use to improve delivery speed
- Modernized merchant dashboard by building new React components to improve 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%
- Acted as technical consultant in meetings with organization executives to identify target areas which can be improved through software solutions

Connected QA Automation Developer Intern | Toronto, Ontario
May 2019 – August 2019

- Spearheaded development of a Python command line tool to automate submitting test results online, reducing time spent on QA testing by over 40%
- Built desktop application using Electron to test Alexa voice applications, 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

- Create and host rooms to share music with friends. Authenticate a Spotify account and invite guests in to add songs to a shared queue, where songs are voted by members to rank the order that songs are played
- Built an Node.js/Express server to: control a host device to play music by making Spotify API calls, authenticate users with the OAuth 2.0 protocol, 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
- Created responsive web client using React and utilized Redux to manage local app state, providing a fast and responsive user experience