Bill DuGe

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EDUCATION

University of Waterloo Bachelor of Computer Science | 91.0% GPA   Sept 2018 - Apr 2023

Relevant Courses: Algorithms • Object Oriented Software Development • Data Structures • User Interfaces
Machine Learning • Artificial Intelligence • Computer Networks • Database Management • Operating Systems

SKILLS

Programming Languages: Python • JavaScript • TypeScript • C++ • C • Java • Go • Ruby • CSS • HTML • SQL

Technologies: Node.js • React • Redux • Django • Express • Ruby on Rails • MongoDB • AWS • Bootstrap • jQuery
Kubernetes • Docker • REST • GraphQL

EXPERIENCE

Shopify | Backend Developer Intern   Sept 2021 – Dec 2021 | Waterloo, Ontario
- Incoming backend developer intern on the Payments Platform team

Wish | Software Engineer Intern (Product Web)   Jan 2021 – Apr 2021 | San Francisco, California
- Built buy-again feed to recommend products based on reorder probability data leading to an increase in GMV, and implemented lazy loading on the order history page to improve buy-again loading times by 50%
- Developed a scratch card component and backend API that integrate with payment systems to distribute discount and cash incentives, improving customer engagement through gamification
- Collaborated efficiently in scrum team with other engineers, product managers, and designers to deliver product features for desktop and mobile clients using Python (Tornado) and TypeScript (React and Redux)

Wish | Software Engineer Intern (Logistics)   May 2020 – Aug 2020 | San Francisco, California
- Architected Python services to correct shipment data inconsistencies, identify store pickup performance, and optimize item packing for shipping, requiring complex and efficient SQL and MongoDB queries
- Developed APIs to provide merchants with product recommendations for different shipment fulfillment options to optimize delivery speed and cost
- Improved the Merchant Dashboard by building new shipment fulfillment pages with React

Youreka Canada | Software Engineer   Nov 2019 – Dec 2020 | Remote
- Designed and built a full stack application with Django and MySQL from the ground up, allowing employees to evaluate student applications on an end-to-end platform, increasing application processing efficiency by 40%
- Oversaw site deployment and coordinated with executives across the organization to provide a smooth roll out

Connected | QA Automation Developer Intern   May 2019 – Aug 2019 | Toronto, Ontario
- Created a cross platform desktop application using Electron, providing a framework for testing Amazon Alexa voice applications and reducing time spent on testing by 30%
- Spearheaded development of a Python command line tool to automate submitting test suite results, reducing time spent on mobile QA testing by 40%

PROJECTS

Juke Jam | Express, SocketIO, React, Redux, MongoDB   juke-jam.com | github.com/bduge/juke-jam
- Juke Jam is a web application to streamline how music is played with friends. Users can join private rooms and add songs to a shared queue. Users vote to influence which songs in the queue are played next on the host's device.
- Built an Express server to: allow users to search songs and play songs through the Spotify API, authenticate accounts with the OAuth 2.0 protocol, and manage room data in a MongoDB database
- Used web sockets with SocketIO to develop logic that sync multiple client connections and events in real time

Photo Spot | Go, Gorilla Sessions, MongoDB, Bootstrap   github.com/bduge/photo-spot
- Photo Spot is a website for hosting photo competitions. Users can create and organize custom competitions, submit photos, or vote for entries in other competitions.
- Implemented full authentication system using Gorilla sessions for users to create and log into accounts