

Bernard Lucas

HONOURS MATHEMATICS · UWaterloo

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Skills

Languages

JavaScript · Python · Java · C · C# · Bash · SQL · HTML/CSS

Technologies

React.js · Redux · Node.js · Git · PostgreSQL · Docker · GCP · AWS

Experience

Stratus360 Inc.

4789 Yonge Street, Toronto, Ontario

FULL STACK DEVELOPER (INTERN - 6 MONTHS, FULL-TIME - 1 YEAR)

Jan 2018 - Aug 2019

- Developed web applications with HTML/CSS and JavaScript.
- Designed & Implemented a trigger framework to streamline Apex class deployment & testing, reducing deployment time by ~30% and markedly improving code testability.
- Led the development of a listing management software package, designing & developing 30+ components for the initial proof of concept and continued on the project as product manager.
- Worked alongside clients to clarify project requirements & deliver quality product increments.
- Trained co-ops & new hires on tech stack & best practices.

Projects

Real-time Audience Sentiment Analyzer (github.com/balucas/Mercury)

PERSONAL

- Created a desktop application that allows presenters to analyze audience emotion through device webcam in real time.
- Application graphs overall audience emotion to assess presentation effectiveness.
- Developed as a UWP App in C# and utilized Microsoft Azure Face API for emotion recognition.

Stock News Timeline (github.com/balucas/stock-news-timeline)

PERSONAL

- Created a financial data application that displays daily stock prices & pulls historical company news to study how specific news stories affect stock prices.
- Utilized AlphaVantage API for OHLC data & NewsAPI for historical company news.
- Developed with Node.js & Express.js backend, and React.js frontend.

A* Search Visualizer (github.com/balucas/pathfinding-viz)

PERSONAL

- Created an interactive web application to visually demonstrate the A* Search algorithm on user-drawn maps.
- Developed with HTML & JavaScript.

User Authentication App (github.com/balucas/neon)

PERSONAL

- Created a skeleton for full-stack web applications that allows users to register, log in, and authenticate requests.
- Authentication implemented with Passport.js & JSON web tokens.
- Developed with React, React-Redux frontend, and Node.js, Express.js backend. PostgreSQL database hosted on Google Cloud Platform.

Magic-Ate-Ball (github.com/balucas/magic-ate-ball)

QHACKS 2019 ENTRY

- Created a machine learning mobile app that utilizes Yelp API and Scikit-learn to suggest restaurants based on user's visit history & reviews.
- Frontend in React Native, model training/prediction in Python hosted on Google Cloud Platform.

Education

University of Waterloo

200 University Ave W, Waterloo, ON

B.S HONOURS MATHEMATICS

2020 - Present

Relevant Coursework: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction (Advanced)

Sheridan College Institute of Technology

1430 Trafalgar Rd, Oakville, ON

B.S. IN COMPUTER SCIENCE (3.93/4.0 GPA, INCOMPLETE)

2019 - 2020

Relevant Coursework: Database Modelling, Network Foundations, Mobile Computing (Android/iOS), Operating Systems Fundamentals, Interactive Application Development