

Branden Wheeler

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Professional Experience

Faire Sep 2022 – Dec 2022
Backend Software Engineer Waterloo, ON

- Spearheaded the design, implementation, and testing of an HTML email compiler using gRPC, Hibernate, JUnit, and Kotlin in strict object-oriented paradigm. Ensured secure retrieval and modification of data to deliver personalized promotional content to over 500,000 users.
- Developed core features of an Instagram-style content feed, including a notification preferences system and corresponding RESTful API endpoints for the online feed to fetch and deliver relevant, engaging content from a cloud-hosted database server.
- Utilized strong communication and collaboration skills to effectively work with agile team members and stakeholders including the company's legal team to deliver project goals on time and to high standards, including ensuring compliance with legislation and internal policy.

Civiconnect Jan 2022 – Apr 2022
Web Development Associate Beamsville, ON

- Conveyed information and ideas effectively with a cross-functional team utilizing an agile SCRUM methodology to deliver client project deliverables under tight deadlines.
- Designed and created 3 unique web pages based on complex client requirements, including e-commerce needs. Presented final products to clients and effectively implemented feedback as needed to ensure project success.
- Created dynamic web pages using services including Shopify, Webflow, and Wordpress, as well as writing HTML, CSS, and JavaScript code for custom interactive components.

Wilfrid Laurier University Sep 2021 – Dec 2022
Computer Science Instructional Assistant Waterloo, ON

- Evaluated and graded student submissions for labs, assignments, and exams, providing detailed feedback on code structure, syntax, and functionality, and ensuring work was original and free from plagiarism.
- Instructed junior students in the use of programming concepts including classes, repetition and control structures, and data structures using Python, VBA, and C.

Personal Projects

Library On The Go - github.com/brandencmw/LibraryOnTheGo

- Built a full-stack, containerized, microservice web application using Docker, Golang for backend, Apache web server with PHP, HTML, CSS, and JS for frontend, and a Postgres central database. Custom Root CA and TLS certificates created using OpenSSL
- Sent requests to 3rd party APIs including Google Books and AWS services including S3 and IAM. Handled requests between internal services using RESTful methodology over TLS.

DDoS Detection With Machine Learning - github.com/brandencmw/ml-project-nids

- Trained and tested Naïve Bayes, Decision Tree, and Logistic Regression models on network traffic data to detect DDoS attacks with a maximum test accuracy of 99.8%
- Performed ML techniques such as hyperparameter tuning, data normalization, and Lasso feature selection in order to fine tune the performance of the data and models

Setify Playlist Merger - github.com/brandencmw/Setify-Production

- Created a responsive front end using Typescript React.js functional components styled using Sass and a back end with Node.js and Express deployed on Heroku for public use.
- Authorized users for user and playlist data by exchanging security codes and tokens asynchronously with calls to the Spotify API after having a user log in to their account.

Extracurriculars

President – Computing Councils of Canada (C³)

- Develop overall mission and strategy of the organization, lead sub-teams, and organize activities to best serve student and computing club interests

Co-Founder and Head of Administration and Finance – HawkHacks

- Managed a budget of over \$20,000 and liaised with school administration members to run a 36-hour international hackathon event for over 500 registrants

Technical Skills

Languages:
C, Golang, HTML/CSS, Java, Kotlin, PHP, Python, TypeScript, VBA

Technologies:
Amazon Web Services, Apache, Backfila, Cloud Firestore, CloudFormation, Cognito, Docker, DynamoDB, Git, Github, Google Firebase, Gradle, Guice, IAM, Jenkins, JUnit, Heroku, Hibernate, MongoDB, MySQL, Nginx, OpenSSL, PostgreSQL, RDS, Redis, Redux, REST APIs, S3, Ubuntu, UNIX/Linux CLI, Webpack

Packages, Libraries, Frameworks:
Bootstrap, EJS, Express.js, jQuery, Node.js, Next.js, OAuth 2.0, Passport.js, React.js, Sass, Spring

Education

Wilfrid Laurier University

- Bachelor of Business Administration
- Bachelor of Computer Science

Expected Grad: Sept. 2024
CS GPA: 11.5/12

Certifications/Courses

AWS Certified Cloud Practitioner

- Well-versed in the use of AWS tools and services for securing cloud systems including IAM, KMS, and Cognito
- Aware of benefits and drawbacks of services including AWS Lambda, CloudFront, EC2, S3, and other commonly implemented solutions

CompTIA Security+ Prep Course

- Knowledgeable about various types of cyber attacks and associated mitigation techniques to reduce risk
- Proficient in cryptography concepts including public key infrastructure and symmetric encryption algorithms

The Complete 2021 Web Development Bootcamp

- Developed extensive full-stack web development skills through 55 hours of lecture material
- Applied skills in MongoDB, Express.js, RESTful APIs, React.js, and other technologies through 5 interactive projects