

OGHENEFEJIRO ABOHWEYERE

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Experience

Software Engineer, 247 Labs Inc – Toronto, Ontario, Canada

April 2022 – Present

- Secured \$100K+ of [SR&ED government funding](#) by taking ownership of a [photography SaaS](#) that used AWS SQS, PostgreSQL and Java ExecutorService to distribute the work of bulk downloads, leading to a 15% increase in mean download speed
- Increased reliability and speed of REST APIs and other backend systems by 10 - 20% using Python ThreadPoolExecutor to send 260 requests/s concurrently, helping to find and fix performance flaws
- Decreased scaling costs by 9% and maintenance costs by 20% through the development of data adapter components during the migration of a Node JavaScript backend application from MongoDB to AWS DynamoDB
- Reduced build time by 10 - 30% and image size by 15 - 20% using Docker multi-stage builds for faster deployments of backend services to AWS cloud infrastructure
- Significantly increased team productivity by leveraging Terraform and Bitbucket CI/CD pipelines to automate testing, deployments and provisioning of AWS cloud infrastructure, leading to decrease in feature delivery time
- Documented research findings on the use of C++ and eBPF in performance profiling in kernel space on Linux operating systems for improved security and visibility

Full Stack Software Engineer, Upwork Inc – San Francisco, CA, United States

July 2019 – March 2022

- Designed admin control website using HTML, Next.js React and Tailwind CSS to let admin users perform operations like adding, verifying, removing, and sharing applications within an organization
- Implemented an application-sharing desktop app using C# .NET WPF, ExpressJS, PostgreSQL and Redis hosted on AWS EC2
- Designed a JavaScript productivity tool to automate the filling of 1000+ forms on a tour exploration website

Skills

Languages: Python, Java, JavaScript, C++, Golang, Bash

Databases: PostgreSQL, MongoDB, DynamoDB, Redis, MySQL

Frameworks: Spring Boot, JUnit, Mockito

Misc: CI/CD, AWS, NoSQL, NodeJS, Docker, Terraform, Android/iOS Development

Education

Ontario Tech University – Bachelor of Science in Computer Science

Graduated May 2023

GPA: 3.85 - Highest Distinction

Projects

3-way merge Golang API

[Github](#)

- Engineered a Golang Gin framework REST API that automatically merges changes in 3 versions of a file into a single merged file using a 3-way merge algorithm written from scratch and hosted on AWS Elastic Beanstalk
- Increased project engagement by 10% through the provision of a Next.js React experimentation tool web app, for easily interacting with the merge API through a UI
- Developed a system for users to resolve conflicts, and download the resolved merge result

BTree Database Index

[Github](#)

- Implemented a BTree data structure using C++ as the backbone of a larger custom database project
- Significantly decreased the chances of memory leaks occurring by using RAII with C++ standard library smart pointers
- Increased learning speed and clarity of thought for myself and other developers by documenting every case for every BTree operation and state change using detailed diagrams

TURN Server

[Github](#)

- Built a TURN/STUN Server Docker container that takes configuration from environment variables as opposed to attaching a configuration file to each deployed instance, reducing the work needed to setup WebRTC networks
- Wrote a Linux shell script to generate a TURN/STUN configuration file from environment variables using gettext utilities
- Increased engagement with peers in the [Handmade Network](#) by 8% through demo and sharing of project details