Ikenna Okpala

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EDUCATION

Simon Fraser University | Bachelor of Science in Computer Science   Sept. 2021 - Aug. 2025
- GPA: 3.7/4.3
- Relevant Coursework: Data Structures/Algorithms, System Design, Distributed Systems, Databases, Artificial Intelligence

Fraser International College | University Transfer Program in Computer Science   Sept. 2020 - Aug. 2021

EXPERIENCE

Agile Developer Intern   May - Dec. 2023
SAP | Vancouver, BC
- Monitored 3 Git branches supporting **500** developers contributing to SAP Analytics Cloud (SAC), identified **20** build issues, and informed the appropriate teams.
- Developed and maintained **CI** pipelines in **Jenkins** and **Github Actions** using **Python**, leveraging **Kubernetes** to achieve **99%** availability.
- Implemented daily end-to-end test automation for SAC with Appvance, uncovering multiple critical bugs.
- Enhanced an internal tool to search the Git history of **microservices** for a specific Regex pattern by using **Groovy** for pipeline scripts, and parallelism to optimize performance, tracking code vulnerabilities in **40** microservices.
- Collaborated with a software architect, backend engineer, and QA lead to develop an identity provider with **JavaScript**, giving internal tools access to private APIs; this solution became the standard practice.

Software Engineer Co-op   June - Aug. 2022
CarbonEthic | Vancouver, BC
- Built a production-ready Android App with **Kotlin** and **Android SDK**, contributing to **60%** of the codebase.
- Designed the app using MVVM and clean architecture, implementing modularization to cut build time by **50%**.
- Fetched data from a backend once via **REST API** to improve navigation between screens, reducing delay by **92%**.

TECHNICAL PROJECTS

Search With Go   Nov - Dec. 2024
Personal Project | search-with-go.git
- Built a search engine using **Go** for the **backend** and web crawler, **React** and **TypeScript** for frontend development, and **GCP** for cloud deployment.
- Implemented a fast web crawler, leveraging 7 threads for parallel processing, scraping **100** webpages per minute.
- Indexed webpages using **PostgreSQL database,** improving query response time by **97%**.
- Developed an algorithm from scratch to rank webpages based on search relevance using TF-IDF, improving the quality of search results by **30%**.

HHA Haiti   May - Aug. 2024
Course Project
- Created an analytics feature using **NodeJS** for the **backend API** and **Chart.js** for chart components, providing Haitian hospitals with data insights through their monthly reports.
- Wrote a data pipeline to process data from a **NoSQL database (MongoDB)** then rendered data points with aesthetic charts, delivering a feature that met the client's satisfaction.
- Improved **CI/CD** pipeline by orchestrating containers using **Docker Compose** and **GitHub Actions** to run **automated tests**, reducing test time by **58%**.

TECHNICAL SKILLS

- **Languages**: Go | JavaScript | Python | C++ | Java | Kotlin| SQL| HTML/CSS | Groovy
- **Frameworks**: NodeJS | React | ExpressJS | NextJS
- **Developer Tools**: Git | Docker | PostgreSQL | Github | Google Cloud | MongoDB | Jenkins | Linux