Oghenefejiro Abohweyere

Software Engineer

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SUMMARY

Passionate Software Engineer with 4+ years of experience developing and maintaining production software using Java, JavaScript, Go and Python. Secured $100K+ in funding by developing a high-performance backend API. Committed to fostering collaboration, building scalable systems, and delivering innovative, maintainable solutions

WORK EXPERIENCE

Software Engineer, 247 Labs Inc., Toronto, Canada   **Apr 2022 - Present**
- Secured $100K+ in government funding by using Java, PostgreSQL and AWS SQS to develop a bulk download distributed system in a backend API, increasing mean download speed by 15%
- Wrote unit tests using Java and Python (JUnit and Pytest), ensuring high code quality and reducing production bugs by 15% in REST backend APIs
- Engineered JavaScript database adapters to allow migration to AWS DynamoDB from MongoDB, reducing scaling costs by 9% for a REST backend API with 75K active users
- Developed an AI chatbot prototype using React.js, a Python backend API, PostgreSQL and Large Language models from AWS Bedrock, improving user engagement by 18%
- Automated pipelines for continuous integration using CI/CD tools like GitHub Actions, Go and Terraform CDK while deploying backend APIs to cloud platforms like Azure and AWS

Software Engineer, Upwork inc., San Francisco, United States   **Jul 2019 - Mar 2022**
- Developed an admin dashboard using React.js on the front-end and REST principles in a Python backend API, enabling monitoring of system metrics, reducing administrative task completion times by 30%
- Optimized backend API performance through caching using Redis, achieving a 40% reduction in response times for high-traffic endpoints
- Reduced image sizes by 20% using Docker multi-stage builds, to increase efficiency while deploying backend APIs
- Collaborated transparently in an agile environment using Git workflows, creating pull requests, conducting code reviews, and soliciting feedback from peers to deliver high-quality, maintainable code

EDUCATION

Ontario Tech University, Oshawa, Canada - *Bachelor of Science, Computer Science*   **Jan 2019 - May 2023**

PROJECTS

3-way merge Go API, Link
- Designed a Go REST backend API that automatically merges changes in 3 versions of a file into a single merged file using a 3-way merge algorithm, replicating the Git merge feature
- Created a UI tool using React.js to allow users interact with the 3-way merge backend, enhancing accessibility for data manipulation while providing clear conflict resolution paths for versioned data
- Automated deployment of backend API using AWS Lambda and AWS CDK, significantly improving deployment speed

BTree Database Index, Link
- Implemented a BTree data structure using C++ as the backbone of a larger custom database project
- Developed unit tests for the data structure, ensuring robustness through automated testing and build validation using CMake and Catch2 test framework, demonstrating attention to reliable, fault-tolerant system design

NTP, Link
- Built a C++ client that uses the Network Time Protocol (NTP) to retrieve accurate UTC time from sources like GPS satellites for clock synchronization in networked systems
- Engineered C++ helper functions using bit manipulation to parse and assemble data efficiently, enhancing performance and efficiency

SKILLS

Programming	: Python, Java, Go, TypeScript, JavaScript, C++, C#
Backend Development	: REST APIs, gRPC, SDK APIs, PostgreSQL, MySQL, AWS DynamoDB, MongoDB
Frontend Development	: React.js, Vue.js, Jest
Cloud Technologies	: AWS (SQS, Lambda, S3, RDS, Elastic Beanstalk, EKS), Docker, Terraform, Azure
Testing	: JUnit, Pytest, NUnit, Jenkins CI/CD pipelines
Collaboration	: GitHub, Git workflows, Code Reviews