Brandon L. Comiter

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EDUCATION

Georgia Institute of Technology — **Atlanta, GA, USA**
Master of Science in Computer Science; Cumulative GPA: ***3.8*** — *Aug 2021 - Aug 2023*

University of Central Florida — **Orlando, FL, USA**
Bachelors of Science in Biomedical Science; Cumulative GPA: ***3.9*** — *August 2016 - May 2020*

TECHNICAL SKILLS

Programming Languages: C/C++, C#, R, Java, JavaScript, TypeScript, Python
Libraries and Tools: Android Studio, AWS, cURL, Cypress, GraphQL, gRPC, GCP, OpenCV, Pandas, PySpark, Postman, React, Redux, Scala, Scikit-learn, Spring, Tesseract, Flask, NextJS, Node.js, Linux

WORK EXPERIENCE

Software Engineer II
Principal Financial Group, NC, USA — *May 2023 - Present*

- Transformed relational database into a non-relational model, optimizing scalability and performance, using AWS DynamoDB
- Developed internal automation and full stack application (React, Spring Boot)
- Created microservices for internal tools utilizing AWS and AzureAD
- Facilitated seamless communication between client and server with DynamoDB NoSQL database by implementing robust REST-based API and leveraging Spring Boot framework
- Designed and implemented GraphQL solution for modernization of legacy REST APIs to query from SQL databases

Software Engineer Intern
Slalom, GA, USA — *Sept 2022 - May 2023*

- Developed self-returns prototype comprised of full stack application (React/Redux, flask, PostgreSQL) and embedded system for a Fortune 20 retail company
- Outcome was 33% reduction in time to return, with 97% customer satisfaction
- Applied Google Cloud Vision API, yolo-V7, and DeepSort to quantify customer behavior and detect theft from existing CCTV infrastructure
- Architected, developed and deployed a full stack brainstorming tool web application (React/Redux, Node, AWS DynamoDB) and AWS hosting
- Developed full stack web application (React, flask, AWS amplify) to showcase IoT padlock capabilities for Fortune 20 CXO

Engineer
Hesperos Inc., FL, USA — *May 2020 - Aug 2022*

- Led development of real-time monitoring for system-critical infrastructure using embedded hardware
- Responsible for maintaining cellular cultures for million-dollar projects with the Bill & Melinda Gates Foundation
- Created applied bioinformatic models in R to quantify the PKPD effects found within Human-on-a-Chip systems
- Developed self-returns prototype comprised of full stack application (React/Redux, flask, PostgreSQL) and embedded system for a Fortune 20 retail company
- Continued development on a large C++ code-base for in-house electro-physiological monitoring software used to capture up to 25 kilo-hertz electrical potential changes in living cells, critical to core business functionality

PROJECTS

- **DISTRIBUTED FILE SYSTEM**, Designed and implemented a distributed file system utilizing multi-threading and concurrency checking to ensure consistency between a central server and a scalable number of local machines. Allowed for seamless addition, Removal, and listing of all files on the server; resulting in a significant improvement in data access speed.
- **ROBOT NAVIGATION IN VIRTUAL SPACE**, Implemented simultaneous localization and mapping (SLAM) algorithm to navigate a robot through virtual space while avoiding simulated obstacles
- **MACHINE LEARNING TRADING STRATEGY**, Implemented a supervised machine learning classification algorithm in Python to create an automated trading strategy for buying and selling financial equities