Zakery Collins

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SUMMARY

Computer Science student with 2 Summers of experience interning with one of the largest retailers in the country and 1 summer with one of the largest chip manufacturers. I obtained my bachelor's degree at the end of Spring 2024 and will finish my master's degree at the end of Spring 2025.

EDUCATION

M.S. Computer Science May 2025
Arizona State University, Tempe, AZ

B.S. Computer Science May 2024
Arizona State University, Tempe, AZ 3.56 GPA

Relevant Coursework: Data Structures, Operating Systems, Machine Learning, Data Mining, Cloud Computing

TECHNICAL SKILLS

Programming Languages: Go, Java, C, C++, Cuda, C#, Python, SQL, Scheme, Prolog, JavaFX, Kotlin, HTML
Packages and Programs: Jaeger, Prometheus, Grafana, Docker, Pivotal Cloud Foundry, GitHub, Cockroach DB, SQLite, AWS
Design and Modeling Tools: Adobe Creative Cloud, Astah, MATLAB, Microsoft Office, Unity Engine

PROFESSIONAL EXPERIENCE

Software Engineer Intern – Intel Corporation June 2024 – Aug 2024

- Optimized Docker containers to work better on lower memory and lower computing power systems
- Reduced technical debt relating to memory usage and incorrect Docker practices

Software Engineer Intern – The Home Depot May 2022 – Aug 2022, May 2023 – Aug 2023

- Developed a cloud-hosted RESTful API in Golang to authorize check payments making the system faster, more secure, and more flexible with downstream/upstream changes
- Developed a cloud-hosted RESTful API in Golang to receive and store PIN pad information in a Cockroach DB for use by IT field captains to track every PIN pad in every Home Depot store
- Restricted access to my system to authorized users using a token system

Sales Associate – The Home Depot June 2021 – Dec 2023

ACADEMIC PROJECTS

GPU-Accelerated Coding, *Master's Thesis* Fall 2023

- Developed multiple programs to demonstrate the benefits of using GPU-Accelerated code including machine learning tasks, image processing, and service-oriented computing
- Found ways to optimize the code for faster speeds and to best fit into NVIDIA's Cuda architecture

Machine Learning House Price Prediction, *Class Project* Spring 2024

- Developed a machine learning model that uses a random forest model and over 70 different features of a house to categorize each house into what price band it should sell for
- Further developed a linear regression model for each price band to give a more specific prediction
- Performed data cleaning and feature selection to make the model more accurate

Go Fish Game, *Class Project* Fall 2023

- Developed a text-based peer to peer Go Fish game using C++
- Added functionality to register players, start games, query registered players, and query ongoing games

Facial Recognition Cloud Computing Project, *Class Project* Fall 2024

- Developed an AWS EC2 instance to handle incoming requests to determine who is in a certain picture
- Added a web tier instance to handle requests and scale my application tier instances automatically

Android Health App, *Class Project* Fall 2021

- Developed an app for Android phones to store health information such as symptoms, heart rate, and respiratory rate in a database for symptom tracking

AWARDS

- Dean's List in Ira A. Fulton School of Engineering for Fall 2021, Spring 2022, and Fall 2023

EXTRACURRICULAR EXPERIENCE

Sun Devil Chess Club August 2021 - Present
ASU Esports Association August 2021 - Present