McKenzie Church

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Professional Summary

- Implemented full-stack development of machine-learning (ML) research (computer vision) project with other software engineer interns
- Developed Python server & API to receive ML data from cloud endpoints for mobile & desktop applications
- Developed & maintained detailed documentation throughout project development for use by developers & users

Education

University of West Georgia — Carrollton, Ga
Bachelor of Science, Computing — Projected: May 2024
(available full-time Jan. 2024)

Job Experience

Software Engineering Intern — May 2022 – Present
The Home Depot

- Assisted MADTech front-end engineers in maintenance of sponsored ad components on The Home Depot websites using ReactJS through an Agile workflow
- Used OOP and TDD to implement monitoring of advertisement statistics (amount of ad loads, number of clicks, rendering performance) through New Relic, beginning the migration of AD monitoring from GAM to narrow profit margins, participating in the MADTech profit increase from +42% (FY2022) to +52% (YTD 2022)
- Implemented default advertisement banner feature to display custom banners for targeted content via Contentful CMS & a Java SpringBoot API catered to GraphQL querying
- Implemented & maintained documentation regarding project functionality & specifications

Projects

Computer Vision Machine Learning – The Home Depot OrangeWorks

- Used GCP's Vertex AI library to train ~400 images for an object detection model to predict products & their price from user-uploaded images via a Flutter app with a >90% precision score
- Connected the Flutter front-end app to the model via a Python REST API
- Created unit and mock testing for API responses in Dart

Customer Shopping Prediction – The Home Depot OrangeWorks

- Utilized Agile workflow to iteratively engineer an internal platform to predict a customer's future purchases based on their past purchase data

- Built a Java back-end server & API to fetch & display product data from GCP to a ReactJS front-end application to aid The Home Depot's Pro Customer associates in making sales recommendations to customers
- Maintained detailed documentation regarding the project's functionality & specifications