Alex Diaz

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○ GitHub · in LinkedIn · 🐦 Twitter · 💼 Diasdiaz

Education

Georgia Institute of Technology — Atlanta, GA
Master of Science in Computer Science GPA 4.0 / 4.0 — *Jan. 2021 – May 2024*

The University of Georgia — Athens, GA
Bachelor of Arts in Economics, Minor in History — *Aug. 2013 – May 2017*

Projects

Multi-threaded Socket Program | *Python, NumPy, PIL, Docker, OpenCV*
- Undertook implementing an AI that solves the Raven's Progressive Matrix IQ
- Demonstrated performance and problem-solving creativity comparable to a human test taker
- Used **Computer Vision** algorithms via **OpenCV** and **NumPy**

IQ AI agent | *Python, NumPy, PIL, Docker, OpenCV*
- Undertook implementing an AI that solves the Raven's Progressive Matrix IQ
- Demonstrated performance and problem-solving creativity comparable to a human test taker
- Used **Computer Vision** algorithms via **OpenCV** and **NumPy**

TimeTime Android Application | *Java, Jetpack, Android Material, Room DB, Java Thread*
github.com/calmcoconut/TimeTime
- Created a time logging Android Application following a MVC design pattern supported by Android's Room persistent database design

Spotify Music Advisor | *Java, Spring, HTTP, OAuth2, JSON*
github.com/calmcoconut/Music_Advisor_spotify_api
- Implemented a RESTful server capable of OAuth handshake and authentication with Spotify

Experience

Software Engineer Tutor — Feb 2020 – Present
Tokyo Coding Club & FDS Services — *Tokyo, Japan*
- Teaching students on software engineering practices and the fundamentals of **Python** and **OO** design.

Data Analyst Manager — Nov 2018 – Nov 2019
United Parcel Service (UPS) — *Sandy Springs, GA*
- Migrated my team's reporting stack to an automated workflow.
- Created dashboards to analyze and aggregate metrics in my division; led to the automation of reports.
- Implemented automated reporting applications by designing SQL database workflows to feed more than 10,000 data entries into VBA and Python applications.
- Led and coordinated inter-team reporting, streamlining other teams' workflows; Reduced average reporting workload from 3 hours to 3 minutes using applications I wrote in Python (Pandas, SQLite).
- Developed software and mentored peers on three teams using Python, MSQL, and VBA.
- Finalists in the UPS upstart startup program— coordinated with a multi-national team to present how encryption technology could impact UPS. Member of the UPS mentorship program.

Technical Skills

Languages: Java, Kotlin, Python, C, C++, Go, SQL, VBA, HTML/CSS, Bash
Frameworks & Libraries: Spring, JUnit, Gradle, Flask, Android, NumPy, Pandas, OpenCV
Dev Tools: Git, Agile, Google Cloud, AWS, VIM, Docker, Make, Linux
Misc: Test-driven development, PASSED—CFA LV 1, API design, systems design, software architecture, equities & derivatives