Alex Diaz

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 GitHub · in LinkedIn · 🐦 Twitter · 💼 My website

Education

Georgia Institute of Technology	Atlanta, GA
Master of Science in Computer Science	*Jan. 2021 – May 2024*
The University of Georgia	Athens, GA
Bachelor of Arts in Economics, Minor in History	*Aug. 2013 – May 2017*

Experience

Software Engineering Tutor	Jan 2021 – Present
FDS Services	*Tokyo, Japan*

- Teaching students engineering practices and fundamentals of **Java, Python**, MIT Scratch, and **OO** design

Data Analyst Manager	Nov 2018 – Nov 2019
United Parcel Service (UPS)	*Sandy Springs, GA*

- Assembled and developed automated data reporting for executive leadership in US sales Vice President and President with **SQL**, **Python's Pandas**, and **Power BI**
- Oversaw inter-team coordination to automate reporting practices. Reduced daily reporting workloads from 3 hours to 3 minutes by automating reports using Python and Microsoft **VBA** with **SQL** database
- Implemented SQL server database jobs to minimizing manual maintenance and reporting requirements
- Addressed production bugs and made improvements in existing inter-team reporting in **Python**, **VBA**, and **SQL**

Data Analyst Volunteer	July 2018 – Sept 2018
Bredesen for Tennessee Senate	*Nashville, TN remote*

- Created data visualizations to impact voter turnout with **Tableau**
- Generated weekly reports using **SQL, Excel pivot tables,** and **VBA macros**; provided **metric reporting**
- Presented analytical data to multiple teams, demonstrating analytical data to add value to on-the-ground efforts

Projects

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, Kotlin, Android Jetpack, Android Material, Room DB, Java Thread*
- 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*
- Implemented a REST server capable of OAuth handshake and authentication with Spotify

Technical Skills

Languages: Java, Kotlin, Python, C++/C, Golang, SQL, JavaScript, VBA, HTML/CSS, Bash
Frameworks & Libraries: Spring, Apache, JUnit, Guava, Flask, Android, NumPy, Pandas, OpenCV
Dev Tools: Git, Agile, Google cloud, AWS, VIM, Docker, Linux
Misc: Test-based development, PASSED—CFA lV 1, Human-Computer Design