

# ALEX DIAZ

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## EDUCATION

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**Georgia Institute of Technology**

*Master of Science in Computer Science*

Atlanta, GA

Jan. 2021 – May 2024

**The University of Georgia**

*Bachelor of Arts in Economics, Minor in History*

Athens, GA

Aug. 2013 – May 2017

## EXPERIENCE

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**Software Engineering Tutor**

*FDS Services*

Jan 2021 – Present

Tokyo, Japan

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

**Data Analyst Manager**

*United Parcel Service (UPS)*

Nov 2018 – Nov 2019

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**

*Bredesen for Tennessee Senate*

July 2018 – Sept 2018

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

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**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

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**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-driven development, PASSED—CFA IV 1, Human-Computer Design