

Alan Patrick Lapid

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EDUCATION

University of Florida

June 2021 – May 2024

B.S. in Computer Science, Minor in Statistics - GPA: 3.7/4.0

Gainesville, FL

- Relevant Coursework: Data Structures and Algorithms, Introduction to Computer Organization, Information and Database Systems, Introduction to Software Engineering, Introduction to Competitive Programming

EXPERIENCE

The Walt Disney Company

June 2022 – Dec. 2022

Software Engineering Intern

Orlando, FL

- Developed and deployed four operational applications currently utilized by executives worldwide to facilitate strategic decision-making
- Quantified and Displayed millions of call data points from Disney Central's business unit in real-time data analysis dashboard
- Utilized React with Typescript to develop/design scalable, dynamic, and digestible UIs
- Consistently met with clients to implement project requirements in **Agile** environment

PROJECTS

WhereToGive | *Typescript, Golang, React, PostgreSQL, Firebase API, MapboxGL API*

- Managed a team of 4 software developers, oversaw project planning, execution, and delivery while fostering collaboration and effective communication among team members
- Devised a dynamic and customizable user interface, incorporating user feedback and unit testing
- Architected and executed Cypress end-to-end tests verifying navigation flows, error handling, and UI elements

Playlist Composer | *Javascript, Node.js, React.js, Express.js, Spotify API*

- Incorporated Spotify API to parse real-time data from users and create playlists
- Implemented self-balancing Red-Black Tree and Hash Map to store song names/priorities
- Developed elegant and functional user interface

Gun Violence Statistical Analysis | *Python, Django, Javascript, OracleDB, SQL*

- Generated 1 million unique tuples with data from US Census and Gun Violence Archive (GVA)
- Developed REST API to connect chart visualizations to Oracle database
- Quantified and Visualized trends in US gun violence between 2013-2018

Documiner (Open Source) | *Python, SpaCy, NLTK*

- Extracted text from images using Optical Character Recognition (OCR)
- Handled file input and text tokenization, utilizing NLP libraries like NLTK and SpaCy

C-Like Language Compiler | *Java*

- Designed and implemented a C-Like compiler from scratch, including a lexer and parser
- Implemented a type checker and Leblanc-Cook symbol table to ensure correct data types and variable scoping in the compiled output
- Optimized the compiler performance through code analysis and machine-level code generation, resulting in a significant improvement in execution speed

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, Typescript, JavaScript, HTML/CSS, R, Golang

Frameworks/Tools: React.js, Java Springboot, Node.js, Express.js Django, Git, PostgreSQL, RStudio