

David Liberal

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EDUCATION

- **Florida State University** Tallahassee, FL
 - *Computer Science*
 - Relevant Coursework: Computer Ethics, Intro to C++ Programming I, Operating Systems
- **Valencia College - Computer Science Pathway**
 - *Relevant Coursework: Node.JS, DOM Manipulation, Flexbox, Asynchronous JavaScript, AJAX, API Calls, OOP*

SKILLS SUMMARY

- **Languages:** Java, JavaScript (ES6), Typescript, Python, C, C++, HTML, CSS
- **Frameworks:** Node.js, ReactJS, Tailwind CSS, Redux, Express, Bootstrap, EJS, Mocha(Node.JS), JEST
- **Tools:** GIT, Microsoft Visual Studio, Adobe XD, Figma, Adobe Photoshop, Visual Studio Code
- **Platforms:** MacOS, Windows, Linux
- **SWE Skills:** Test-Driven Development, Object Oriented Programming, AJAX, JSON
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

PROJECTS

- **JPMorgan Perspective - Data Visualization** : Applied bug fixes to Perspective interactive data visualization tool. Implemented Python ReactJS algorithm that displays trading dashboard. Used PerspectiveJS to build custom elements to integrate server-side Python data with in-browser client. Tech: ReactJS, PerspectiveJS, Python, Typescript, AJAX
- **PokeExpert - ReactJS Based Modern Pokemon Database (Search Engine, ReactJS, RestfulAPI, AJAX, JSON):** (Work in progress) An open source Pokemon research database that displays statistics for select legendary Pokemon and provides in-game hints and suggestions. Search engine that interacts w/ RestfulAPI, querying a Postgres SQL database of over 1000 assets. Tech: ReactJS, HTML, Tailwind.CSS, JavaScript, Figma (Prototyping), JSON, AJAX
- **WIFI Troubleshooter - C++ Command-Line Interface Application:** A robust command-line interface (CLI) application, implemented in C/C++, featuring a secure login system that accommodates user authentication via both username and password. This application is designed to assist end-users in diagnosing and resolving issues with their wireless internet connectivity. It boasts a comprehensive logging mechanism that diligently records the date and time of each application instance's execution.
- **Telegram Chat Bot - AI Command Driven, Python, JSON, RestfulAPI:** An HTTP request based bot that responds to a select few commands. Parses through messages for certain keywords to respond. Notably, interacts with WeatherAPI by parsing through JSON, via RestfulAPI, to display data of current weather conditions in desired city. Fetches jokes from JokesAPI, via RestfulAPI, to respond with a random joke punchline.Tech: Python, JSON
- **Flixtor - Android Platform Movie Browsing App - Kotlin, Java** : Leveraging the Android framework and Kotlin's concise syntax, We designed a user-friendly interface for efficient movie exploration. The app employs asynchronous network requests to seamlessly retrieve and display movie data, including titles, descriptions, ratings, and release dates, from diverse API sources.
- **SoundScout - Spotify API Data Science Application - Data Visualization Processing:** An application of data science uses recommendation algorithms, such as collaborative filtering, content-based filtering, and hybrid approaches, to generate music recommendations. Fetches listening behaviour data, preferences and patterns from user specified playlist. Tech: Python, Spotify API, Pandas, Anaconda

EXPERIENCE

- **BestBuy** In-store
 - *Technology Sales Adviser - Customer Experience Tech Consultant* May 2021 - May 2022
 - **Tech:** Stayed up to date with the latest technology with on-job training by companies including Sony, HP, Lenovo, Google, etc. - Educated Customers on latest technologies by probing them to products that would either exceed or meet their needs
- **Office Depot** Hybrid
 - *Technical Client Lead* August 2022 - September 2023
 - **Client Services:** Work with senior management to establish sales and print data targets and objectives. Monitor the team's progress toward these goals and implement strategies to ensure they are met or exceeded.

EXTRACURRICULAR AND ACADEMIC ACTIVITIES

- **JPMorgan Chase Co. Software Engineering Virtual Program:** Contributed to JPMorgan Chase's Perspective data visualization software by making necessary adjustments to process stock price to analyze predicted trade time for stock (Python), applied fixes to client-side application to ensure visualized data was fetched and updated continuously via server application (TypeScript, ReactJS, Express)
- **The Web Developer Boot-camp 2022:** Learned web development technology fundamentals, including deployment, testing, and maintaining web based applications - HTML, CSS, Advanced JavaScript