

Davian Albarran

[REDACTED], NJ | [REDACTED] | [REDACTED]

davianalbarran.github.io | linkedin.com/in/davian-albarran

SUMMARY

Recent Monmouth University grad with a B.S. in Software Engineering and double minor in Math and Computer Science. Currently following an entrepreneurial venture in the tech industry while seeking employment. Strengths would best be utilized in Full Stack or Back-End Software Engineering roles.

EDUCATION

Monmouth University

West Long Branch, NJ, USA

Magna Cum Laude B.S. in Software Engineering
with a double minor in Mathematics and
Computer Science.

Cumulative GPA: 3.74
Graduation Date: May 2024

Involvement:

Resident Assistant | Monmouth University Residential Life

Sep '23 – May '24

In charge of supporting ~200 residents and enforcing the housing rules in a team of 4. Developed 14 programs and weekly newsletters to foster community and diversity in our housing complex.

Volunteer Proctor | IEEE/ACM Club Hackathon

Feb '23

Aided other volunteers with administrating and proctoring a Hackathon event. Responsible for rounding up upper class high schoolers and discussing University-level Computer Science expectations, as well as insuring that there was no cheating and no technical issues during the competition.

AWARDS

Monmouth University Software Engineering Department's **Award for Academic Excellence**

Monmouth University **HawkTank 2024 First Place Winner**

Monmouth University **2022-2024 Dean's List**

Monmouth University's Department of Chemistry and Physics' **Physics Award**

LANGUAGE PROFICIENCIES (Level: 1-3)

Typescript (3) | MongoDB (3) | MySQL (3) | React (3) | Node.js (3) | Express.js (3) | AWS (3) | GoLang (2)
Swift (2) | Python (2) | Rust (2) | C and C++ (2) | Java (2)

EXPERIENCE

Founding Software Engineer | ParkShark | West Long Branch, NJ

Sep '23 – Present

Oversees and contributes to the entirety of ParkShark's technical architecture, majorly focusing on the back-end services running in the cloud using AWS' suite of tools. This entails running and working with a codebase of around 10,000 lines utilizing Node.js, Express, Typescript, and various other languages such as GoLang for microservices planned to be implemented.

Full Stack Software Engineer Intern | MITRE | Shrewsbury, NJ

May '22 – Aug '23

Supported a web development team as a Full Stack Engineer by completing tickets on a Kanban Board for each Sprint working under an Agile philosophy. Utilized HTML, CSS, JavaScript+jQuery for creating views and Node.js + Express.js for backend functionality, as well as working with our MongoDB, MySQL, and AWS S3 databases. Transferred from full time to part time through the school year.

PROJECTS

ParkShark

An innovation on parking lot activity tracking utilizing GPS and Bluetooth technologies. Presented to and won Monmouth University's 2024 entrepreneurship conference, "HawkTank." Currently seeking seed funding and planning the test phase of the launch

Mobile App Development: Swift in Xcode, Kotlin in Android Studio

Backend: Node.js configured with TypeScript, Express.js, MySQL.

Embedded Device: C/C++ Code utilizing a custom proprietary SDK.

AmiStudio

A take on Tamagotchi utilizing RPG stats with a multiplayer competitive aspect. This project was meant to showcase and progress my understanding of Rust as a back-end language.

Backend: Tauri Rust Stack with Actix Web centralized server.

Frontend: React.js configured with Typescript.

Personal Website - davianalbarran.github.io

This is my personal website that I created for potential employers and connections in my network to easily see my accomplishments and easily access my projects. Give it a look!

Frontend: React.js + TailwindCSS

Backend: AWS Lambda Function written in Go to provide a functional contact form at the bottom of the site.

DFirmware

This is a low-level kernel I wrote to learn about writing bootloaders and firmware for an ARM chip. Zig is mainly used for its incredible build system and much more friendly developer experience. Assembly is used to set up the bootloader and address space for my firmware.

Tech Stack: Zig, C, Assembly

DTorrent

This is my take on the notorious BitTorrent protocol. This was written based on the unofficial specification written up on wiki.theory.org. A typical BitTorrent client and tracker are written up.

Tech Stack: Zig

Claude Trader

This project came up as a result of me reading up on various methods for testing AGI, one of them being if you could give the model \$100,000 and it can make \$1,000,000 gave me the idea to set up a programmable trading account for an instance of Claude Opus 3. May extend this project to adapt to other LLMs.

Tech Stack: GoLang, Anthropic REST API, Alpaca Trading API
