

# Saad Sadouk

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## EDUCATION

### George Mason University

Fairfax, VA

Bachelor of Science, Computer Science - GPA: 3.5/4.0

Aug. 2021 – May 2025

- Relevant Coursework: Object-Oriented Programming (**Java**), Data Structures (**Java**), Operating Systems (**C**), Analysis of Algorithms (**Java**), Software Engineering (**React.js & Python**)

## EXPERIENCE

### Software Engineer Intern

Aug. 2022 – Dec. 2022

IPConfigure Inc · Internship

Norfolk, VA

- Contributed to the development of features for a web-based UI using **Angular** and **TypeScript** that enables users to store, view, and customize streams from IP cameras.
- Implemented **Java Spring Boot** backend APIs for a video surveillance system, reducing latency by **25%** and enabling seamless integration with IP camera streams.
- Designed a **Material Design**-driven interface for retention analytics, cutting data analysis time by **30%** and earning praise from the product team.
- Orchestrated migration of legacy **AngularJS** and **JavaScript** codebases to modern **Angular** and **TypeScript**, enhancing performance by **20%**.
- Authored **TypeScript** and **Jasmine** unit tests, achieving **90%** code coverage and accelerating code review cycles by **35%**.

## PROJECTS

### FlipAssist.app | *Next.js, TypeScript, TailwindCSS, Firebase, Stripe, Google OAuth* | ([link](#)) Mar. 2023 – Present

- Architected a full-stack **SaaS product** designed for resellers, scaling to over **300+** active users worldwide in 18 months, revolutionizing inventory management.
- Built a real-time dashboard using **ChartJS** and a high-performance inventory system with **CRUD** functionality, delivering critical sales insights and slashing management time by **40%**.
- Developed a suite of automation tools—including high-speed product monitors, fee calculators, proxy delay testers, and more—boosting operational efficiency by over **50%**.
- Integrated **Stripe** and **Firebase** for secure, scalable subscriptions, driving consistent revenue growth.

### FrugalFinder | *React.js, Flask, SQLAlchemy, SerpAPI, JWT, Pytest, SQLite* | ([link](#)) Sep. 2024 – Dec. 2024

- Designed and implemented a robust **Flask**-based backend with **SQLAlchemy**, delivering a scalable **RESTful API** to support price comparison and user authentication for **50+** users.
- Engineered seamless integration with **SerpAPI** for real-time product data aggregation, optimizing for low latency and handling **10,000+** daily queries.
- Designed a secure **JWT**-based authentication system, ensuring data integrity with industry-standard encryption.
- Led schema design and optimization with **SQLite**, efficiently managing relational data for users and products.
- Spearheaded backend testing with **Pytest**, achieving **90%+** code coverage and reducing bugs during sprints.

### Imagen AI | *Next.js, TypeScript, TailwindCSS, Convex, Google OAuth* | ([link](#)) June 2023 – July 2023

- Built a full-stack **Next.js** application leveraging the **ControlNet Replicate API**, enabling AI-generated images from user prompts and sketches with over **95%** generation success rate.
- Boosted user engagement by integrating **ReactSketchCanvas** for real-time sketching and gallery features, increasing session duration by **30%** during testing.
- Optimized backend efficiency with **Convex** to streamline **ControlNet Replicate API** calls, cutting image generation latency by **40%** over baseline.

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, MySQL, JavaScript, TypeScript, HTML, CSS, Stylus

**Frameworks:** Next.js, React.js, Angular, Node.js, Express.js, Flask, Spring Boot, TailwindCSS, Material-UI, SQLAlchemy, Convex, jQuery, Jasmine

**Developer Tools:** Git, GitHub, AWS, Postman, Jira, Vercel, Figma, VSCode, Linux, Firebase, Stripe, Pytest, SQLite