Saad Sadouk

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EDUCATION

Bachelor of Science, Computer Science — Fairfax, VA
George Mason University — *Aug. 2023 – May 2025*

Associate of Computer Science - GPA: 3.9 — Hampton, VA
Virginia Peninsula Community College — *Aug. 2021 – May 2023*
- Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Computer Organization, Cloud Computing: Infrastructure and Services, Discrete Mathematics

EXPERIENCE

Software Developer 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.
- Developed a visually appealing and intuitive graphical interface using Material Design, allowing users to easily view and analyze their estimated and actual camera retention.
- Migrated several AngularJS and JavaScript files to Angular and TypeScript, improving code maintainability and performance for the project.
- Utilized TypeScript and Jasmine to perform unit tests for front-end functions in order to ensure quality code and speed up code reviews by 35%.
- Conducted quality assurance tests via TestRail to execute test cases and track results to ensure release clients are producing expected results.

PROJECTS

flipassist | *Next.js, TypeScript, Tailwind CSS, Firebase, Google OAuth* — Mar. 2023 – Present
- Developing a full-stack web application tailored for resellers, streamlining inventory management and maximizing profitability.
- Implemented a comprehensive dashboard with interactive line charts using ChartJS, presenting key metrics such as product count, inventory value, sales, and profits. This empowers resellers with real-time insights into their business performance.
- Designed and developed an intuitive inventory management system with search, filtering, and CRUD functionalities, enabling users to effortlessly add, edit, and remove items based on product type, platform listing, and status.
- Creating advanced calculators tailored for popular platforms like GOAT, StockX, Grailed, and eBay, equipping resellers with precise profit calculations and the ability to account for expected fees. Ultimately assisting in optimize pricing strategies and enhance profitability.

Imagen | *Next.js, TypeScript, TailwindCSS, Convex, Replicate API, Google OAuth* — June. 2023 – July. 2023
- Developed a full-stack web application using Next.js that leverages the ControlNet Replicate API to generate AI-generated images based on user prompts and sketches.
- Integrated features such as prompt input, canvas sketching using the ReactSketchCanvas library, and a community gallery for users to explore and contribute to the collection of AI-generated images.
- Utilized Convex, a backend-as-a-service (BaaS) platform, to handle backend operations and connect with the ControlNet Replicate API for image generation.
- Designed all pages and user interfaces of Imagen using Figma to ensure a visually appealing and user-friendly experience.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, mySQL, JavaScript, TypeScript, HTML, CSS, Stylus
Frameworks: Next.js, React.js, Angular, Node.js, Express.js, tRPC, NextAuth, TailwindCSS, jQuery, Jasmine, Material-UI
Developer Tools: Git, GitHub, AWS, Postman, Prisma, Planetscale, Jira, Netlify, Vercel, Figma, VSCode, Linux