Neil Walter

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EDUCATION

Bachelor of Science in Computer Science   **AUGUST 2024**
University of Maryland, Global Campus GPA: 3.20

Relevant Coursework: Advanced Data Structures, Design and Analysis of Computer Algorithms, Artificial intelligence, Computer Systems Architecture, Front-end/back-end web development, Git, Game Programming, Organization of Programming Languages, Introduction to Computer Systems

Associate of Arts in Computer Science   **JUNE 2022**
Montgomery College, Rockville, Maryland

TECHNICAL SKILLS

Programming languages: JavaScript, Go, Python, Java, C, C++
Frameworks: ExpressJS, NextJS, React

WORK EXPERIENCE

Self-Employed   **APRIL 2020-PRESENT**
Freelance Software Developer
- Develop and maintain software solutions for clients, with a focus on mobile and web applications.
- Specialize in reverse engineering web APIs and SDKs for various platforms, including work with Tinder and Arkose.
- Experience in building and managing SaaS projects, including infrastructure setup, API development, and user interface design.
- Expertise in integrating barcode systems such as 1D, PDF417, and QR, into software solutions.

TECHNICAL PROJECTS

Reverse Engineering Web APIs and SDKs
- Reverse-engineered the Tinder web API and SDK, understanding its request/response flow and uncovering undocumented API features.
- Reversed Arkose's SDK, focusing on their browser fingerprinting techniques to understand and replicate their security mechanisms.
- Automated process flow and learned advanced reverse engineering techniques, including decompiling apps to uncover hidden APIs and identify weaker endpoints for potential optimizations.

SaaS Project Development
- Designed and implemented SaaS applications for clients, handling both front-end and back-end development.
- Learned about setting up NGINX for web servers, working with payment platforms like Stripe, and using frontend frameworks such as TailwindCSS.
- Implemented server-side rendering (SSR) with Next.js to improve SEO and performance for web applications.

LEADERSHIP AND DEVELOPMENT

Eagle Scout: BSA Scout Troop 264   **2016-2020**
- Eagle Scout project, Built a bench at a local church for gathering before and after services. The project included a tree and mulch area to create a welcoming environment.
- Planned and led the project in multiple stages, gathering resources, coordinating with volunteers, and leading peers and younger scouts.