

Wilson Wu

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RELEVANT EXPERIENCE

Web Developer Intern @ Evergreen Investments

Feb 2023 – Jun 2023 // Duluth, GA

- Developed and shipped highly interactive custom web features, enhancing user engagement by 17% using A/B testing.
- Streamlined company workflow by interfacing backend systems, enhancing API connectivity, CRM integration, and efficient management of customer and listing data.
- Collaborated with a small team to automate data acquisition processes and controls using Python and Java.
- Created dynamic website components, landing pages, and tiered pricing models while ensuring cross-browser compatibility and responsiveness.

RELEVANT PROJECTS

Chrome Extension Analyzer Web Application

Node.js, Express, Axios, Docker (Fly), Multer, RetireJS, React

- Engineered a web application to automate security risk analysis of Chrome extensions with a unique risk assessment algorithm that evaluates metadata, content security policy, JS library vulnerabilities, extension permissions based on Google's whitepaper, and Chrome API usage.
- Currently in collaboration with a West Point cybersecurity analyst, configuring API endpoints to automate and embed response data within their SIEM analysis workflow.

Noted Full Stack Application

Backend: Express.js, Express-Async-Errors, MongoDB, JWT, bcrypt, Jest, Supertest

- Built on Express.js and integrated with Mongoose, CRUD operations, user authentication, and follows TDD practices for enhanced reliability and maintainability.

Frontend: React, Redux Toolkit, React Router, Cypress, React Testing Library, Chakra UI

- Dynamic user interface, redux state management, client-side routing, and automated E2E testing via Cypress.

Cryptanalysis of Cipher Implementations

Python, C++

- Developed automated cryptographic solvers that crack AES-CTR ciphers for same key encryptions and other various ciphers (Vigenère, affine, Caesar).

EDUCATION

John Jay College

2023 // NY, NY

BS in Computer Science and Information Security, GPA: 3.9

Baruch College

2019 // NY, NY

BA in Biological Sciences, GPA: 3.7

PROGRAMMING SKILLS

Programming Languages

Python, C++, JavaScript (ES6), HTML, CSS, Typescript, Perl, R, Standard ML

Libraries & Frameworks

React, Node.js, Express, Chakra, Mongoose, Next.js, Mantine, Tailwind

Tools & Platforms

Bash, Git, Github, WordPress, MongoDB, Fly.io, Vercel, PostgreSQL

Testing Frameworks and Tools

Cypress, Jest, supertest, Postman, REST plugins

IT SKILLS

Tools & Platforms

Linux Kali, Volatility3, Snort (IDS), Metasploit, Wireshark, DoD STIG Tools, Splunk, Docker

Security Practices

Access Controls, Data Encryption, Cyber Programs, Insider Threat, IT Risk Assessment