Nathan Wong

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EDUCATION

University of Mary Washington   Fredericksburg, VA
Bachelor of Science in Computer Science, Minor in Data Science   *Aug. 2021 – May 2025*
- Relevant coursework: Data Structures and Algorithms, Discrete Mathematics, Computer Programming and Problem Solving, Obj-Oriented Analysis and Design

EXPERIENCE

Software Developer Intern   June 2023 - August 2023
Dev Technology Group   *Reston, VA*
- Developed 5 React micro-frontends to help the U.S. Army Core of Engineers track internal projects & proposals
- Created and improved accessibility for 16 different UI components using React & the styled-components library
- Increased the component unit test coverage of 5 company repositories to 100 percent using React Testing Library
- Utilized AWS Lambda and Dynamodb for a serverless backend ensuring a 99% uptime

Founder and Software Engineer   October 2018 – August 2021
Mercury AIO   *Alexandria, VA*
- Built a B2B SaaS to help 500+ small businesses automate inventory acquisition, which grossed $130,000+ in revenue
- Flagship app, Mercury, used React and React Native (iOS) to provide a seamless, cross-platform app
- Developed a full-stack web application using React, Typescript, PostgreSQL and Docker to provide analytics to customers
- Utilized Kubernetes to deploy a websockets server that could handle thousands of concurrent connections
- Implemented 4+ backend microservices and CI/CD pipeline using Go and AWS Cloud Services
- Managed and communicated with a team of 4 contractors who oversaw the day-to-day business operations

PROJECTS

UMW Cribs | *Node.js, Typescript, React, TailwindCSS, MySQL*   July 2023 - August 2023
- Full-stack web application that helps UMW students find off-campus housing
- Has a cron job that scrapes data from websites such as Zillow and Apartments.com
- Frontend built with React Remix, Tailwind CSS, and Typescript
- Monorepo deployed to Cloudflare with Github Actions for CI and CD

Video Editor | *Node.js, Typescript, Golang, React, AWS Lambda, PostgreSQL*   April 2023
- A full-fledged video editing web application that lets users edit videos in the browser
- Frontend built with React Remix, Typescript, and Supabase
- Accessible UI components written with TailwindCSS and Radix UI
- Serverless Golang (Go) backend built with AWS Lambda & S3 that uses FFMpeg to process and render videos
- Deployed to Vercel and open-sourced on Github

Bird Bot | *Python, PyQt*   March 2020
- Desktop application that helped consumers purchase Nintendo Switches during the pandemic craze
- Featured in the Washington Post and Forbes
- Helped raise over $1,000 for charity
- Published to Github and has gained over 1,200+ stars

Recaptcha Fullauto | *Python, AWS Rekognition API, Docker*   April 2021
- Developed a program that uses ai to automatically solve "I am not a robot" captchas
- Implemented the AWS Rekognition API to scan the captcha images
- Automated with the use of the Python package Selenium
- Published with a Dockerfile to Github

TECHNICAL SKILLS

Languages: Typescript, Go (GoLang), Python, Javascript, Node.js, Java, HTML, CSS, SQL (PostgresSQL, MySQL)
Frameworks: React, React Native (iOS), Next.js, Remix, Tailwind CSS
Developer Tools: Git, Docker, AWS Cloud Platform, Google Cloud Platform, VS Code, IntelliJ, Vim