Nate Wilson - Full Stack Software Engineer

(330) 519-8076 | nsw.wilson@gmail.com | github.com/nwilson314 | linkedin.com/in/natewilson2

Work Experience

Software Engineer | Prevounce Health | Remote Patient Monitoring | Jan. 2025 - Present
Technologies: Python, Javascript (React), DynamoDB, AWS (Lambda, Amplify)
- Lead Engineer of Prevounce Public API and Developer Portal -- design, maintain, and manage CI/CD for a Python + React serverless stack for 50+ partners.
- Automated device-renewal billing by adding an EventBridge-triggered workflow and deactivation endpoint, eliminating manual quarterly spreadsheets and saving operations ~10hrs/mo.
- Re-architected role-based permissioning and added self-serve API-key + webhook management UI, virtually eliminating customer support tickets for API key/webhooks.
- Hardened developer portal with API Gateway Lambda authorizer enforcing JWT session headers, blocking 100% of unauthenticated traffic.
- Developed a device-reminder service -- a firmware-sync handler and public API to program reminders on thousands of cellular-connected devices.
- Modernized internal admin portal, migrating legacy jQuery to modular vanilla JS + Bootstrap; new-feature lead time fell from days to hours.
- Raised portal reliability to 99.9% by abstracting fetch client with JWT auto-refresh, auto-retry, and persisted key context.

Software Engineer | Skipper Hospitality | Saas Hospitality Booking Engine | Mar. 2022 - Sept. 2024
Technologies: Python (FastAPI), Typescript (Svelte), PostgreSQL, Redis, AWS (S3, Fargate), Docker, gRPC
- Scaled booking engine from zero to $400k ARR in <3 yrs by shipping FastAPI micro-services on AWS Fargate and integrating with hotel PMS APIs.
- Eliminated double-booking incidents by designing an idempotent payments engine (Python, Redis, Postgres).
- Cut booking image load times 70% with S3 + Lambda pipeline serving device-targeted resolutions.
- Implemented real-time personalized content & regulatory compliance through dynamic CMS layer.
- Sole U.S. engineer/on-call -- kept platform 99.9% up and handled most incidents for 20+ properties.

Software Engineer | HealthCrowd/mPulse Mobile | Healthcare Communications | Aug. 2021 - Feb. 2022
Technologies: PHP, Python, AWS, MongoDB, Symfony
- Developed and maintained PHP/Symfony based SMS & IVR systems for 1M+ users, automating enrollments and report generation.
- Led DevOps initiative to automate SFTP backups on AWS EC2, enhancing reliability and removing manual uploads.

Technical Skills

Languages: Python, Javascript, Typescript, SQL, Bash
Frameworks/Libraries: FastAPI, Svelte/SvelteKit, React
Tools/Platforms: AWS (EC2, S3, Fargate, Lambda, EventBridge, API Gateway, Amplify), Docker, Git, gRPC
Databases: PostgreSQL, DynamoDB, Redis, MongoDB

Education

MS Computer and Information Sciences | Northeastern University | Boston, MA | May 2021
BS Electrical and Computer Engineering | The Ohio State University | Columbus, OH | May 2013