AJ Schmidt
Infrastructure/Automation Engineer

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BIOGRAPHY

AWS Certified infrastructure and automation engineer. Daily Linux user. Expertise in provisioning cloud and on-premise machines using tools like Packer, CloudFormation (IaC), and Ansible. Fluent in creating CI/CD pipelines via GitHub Actions and Jenkins. Experienced in creating, publishing, and running containerized applications in production environments. Thoroughly enjoys building tools to streamline everyday processes with languages like Go, TypeScript, and Python. Values collaborative knowledge sharing opportunities. Passion for technology highlighted by superior leadership and extraordinary personal initiative.

EDUCATION

B.S. ELECTRICAL ENGINEERING   Jun. 2016
Drexel University, Philadelphia, PA   **GPA** - 3.46

SKILLS

LANGUAGES: Golang, TypeScript, Python, Bash, PHP, HTML, CSS

TOOLS: Linux, AWS, Docker, K8s, GitHub Actions, Ansible, Packer, Git, CMake, jq, zsh, Jenkins

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EXPERIENCE

NVIDIA: Sr. DevOps Engineer   **Jan. 2020 - Present**

Maintains automation and testing pipelines with Jenkins. Currently leading efforts to provision cloud & on-premise K8s clusters to support migration to GitHub Actions with an auto-scaling pool of self-hosted runners. Manages infrastructure on-premise and on AWS (EC2, Lambda, ECS). Deploys nightly and stable conda packages and Docker images. Creates various tools in TypeScript, Golang, and Python to support automation and developer efficiency. Updates websites when needed. Mentors new hires and junior peers.

CAPITAL ONE: Sr. Software Engineer   **Jul. 2018 - Dec. 2019**

Maintain AngularJS site platform while building new Angular 7 platform. Lead testing efforts with Jest, Selenium, and AppliTools. Build NodeJS applications to automate daily processes. Construct CI/CD pipelines in Jenkins. Leverage AWS CloudFormation to provision QA environments. Interview new team prospects. Mentor colleagues in all aspects of JavaScript and AWS.

CARFAX: Product Developer   **Apr. 2018 - Jul. 2018**

Rebuilt Vehicle History Report landing page from scratch using modern tooling and practices. Created a custom webpack configuration to minify/concatenate CSS and JS, transpile JS, compress all images, cache-bust assets, and compile Pug into HTML. Rebuild & redesign resulted in +$2mil yearly increase. Mentored junior developer throughout entire rebuild process.

RECOVERY BRANDS: Front-End Developer II   **Jan. 2018 - Apr. 2018**
Front-End Developer I   **Jan. 2017 - Jan. 2018**

Updated and maintained Recovery Brands' 20+ WordPress properties. Built new sites from InVision mock-ups using webpack, SASS, npm, and git. Wrote WordPress custom-post-type plugin to allow staff members to be easily updated on recoverybrands.com. Created git hooks to automate Jira task updates. Authored *grev* npm package to streamline code review process by using Node and GitHub, Slack, and Jira APIs.

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EXPERIENCE (cont.)

LOCKHEED MARTIN: Systems Engineer   **Mar. 2015 - Nov. 2016**

Served on team of 10 analysts that used Matlab simulations to perform gap analyses, model-driven tests, sensitivity studies and concept exploration. Conducted >1,000 complex missile simulations on weekly basis; analyzed and summarized findings using PowerPoint and visual plots. Served as operations point person and peer mentor.

PROFESSIONAL CERTIFICATIONS

AWS Certified Solutions Architect - Associate (TCDPMYW1E1QQQHSM)   **Sept. 2019 - Sept. 2022**

PERSONAL PROJECTS

Ciocco's Baked Goods   **May 2022 - Present**

Ciocco's Baked Goods is a small e-commerce site made for my mom's baked good service. It's powered by AWS Lightsail, WordPress, and WooCommerce. The main goal of the project was to create a fast, attractive, and functional e-commerce site while writing as little code as possible. This was accomplished by leveraging open-source software and off-the-shelf themes. Some custom checkout fields were added with frontend validation powered by JavaScript and backend validation powered by PHP. The Lightsail server was provisioned with an open-source tool called WordOps.

WPBenchmarks   **Aug. 2018 - Aug. 2020**

WPBenchmarks was a site which posted daily speed test results for popular shared WordPress hosts. The front-end was built with Gatsby and the back-end was powered by Node. K6 was used to perform the speed tests and the results were uploaded to AWS's DynamoDB for consumption by the front-end. The speed tests were run via a nightly containerized job on AWS's ECS. The site also used Highcharts to display the test results and SVG animations for showing server locations.

VOLUNTEER WORK

HopeCam   **Jan. 2019 - Jul. 2019**

Assist HopeCam in their efforts to connect children with cancer to their classroom via webcams. Perform administrative tasks in the office. Draft emails to send to HopeCam's newsletter subscribers.

Code Apprentice   **Sept. 2018 - Dec. 2018**

Mentored a high school senior on topics of web development via video chat over the course of a semester. Covered web fundamentals including HTML, CSS, and JavaScript and continued on to address webpack, Express, and MongoDB. Student's final project was a site called ClubFinder that served as a directory for all of the extracurricular clubs that his school offers to students.