

Michael Glen Smith

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Technical Skills

Language/Tools/Frameworks/Concepts

- TypeScript/JavaScript, Python, PowerShell, Shell (Bash), JSON, YAML, HTML, Tailwind CSS
- React (Next.js), Angular, Technical Writing, Git/GitHub Actions, Figma
- AWS, Microsoft Azure, Node.js, Linux, Docker, Terraform, REST API

Professional Experience

Senior Software Engineer | General Electric (Corporate) | January 2019 - Current

- Engineered an automation service for cloud inventory API that queries Big Data from Azure to AWS cloud platforms using PowerShell and Python. Enhancing data integration, cross-platform analytics, logging, and monitoring.
- Served as a technical lead on an Automated Auth Service for GUI/API access to the company's cloud inventory tool, from incubation to delivery. Minimized manual processing by 65%, utilizing Python and AWS Microservices.
- Created an Onboarding Pipeline using AWS Step Functions, Lambda, and DynamoDB to automate employee access control, improving security compliance and accelerating the onboarding, auditing, and offboarding process by 85%.
- Leveraged Docker containers to shape the development process across 10+ React applications, implementing new features using TypeScript. This initiative enriched team productivity and reduced setup and deployment times.
- Architected robust CI/CD pipelines utilizing AWS CodePipeline, EC2, CDN, DNS, and SSL/TLS certificates, with unit test automation to optimize full-stack deployment and improve overall system functionality.
- Executed NoSQL database migrations using Python, managing multiple tables with over 5,000 data items. Centralized data into modern cloud-based accounts to enhance accessibility and availability for new businesses.
- Operated as the technical lead, overseeing code audits to uncover vulnerabilities, leading to a strategic restructuring of the React codebase. Resulted in a seamless user experience, a 25% bug reduction, and error eradication.
- Spearheaded the migration of applications during a company-wide reorganization, ensuring seamless transitions from dissolving branches. Successfully minimized downtime and maintained data integrity across all divisions.
- Conducted technical interviews to assess candidates' technical skills and cultural fit, improving the hiring process. Strengthened the team's evaluation capabilities, resulting in higher-quality new hires.

Software Engineering Specialist | General Electric (Digital) | October 2017 - December 2018

- Designed a KPI dashboard using Angular to analyze trends across all cloud accounts for over 20 business units. This solution provided stakeholders with real-time data access, significantly enhancing decision-making capabilities.
- Built and deployed commercial cloud infrastructure as a product across 1,300+ cloud accounts using Terraform and Azure DevOps. Inflated operational performance and reduced deployment times by 40%.
- Developed a Bash script to programmatically clean up discontinued Azure subscriptions, reducing the need for manual intervention. Enabled faster turnover of system resources, improving efficiency and resource management.
- Migrated legacy systems to a standardized cloud infrastructure, aligning with new product models and compliance standards. Minimized operational costs and enhanced deployment thoroughness through efficient system migration.
- Achieved significant cost savings by identifying and decommissioning legacy resources in our Azure tenancy: diminished operational costs and optimized resource allocation.
- Built and configured cloud accounts for clients migrating to AWS and Azure, including setting up VPC, NAT, route tables, and EC2 instances. Upgraded infrastructure scalability and security, resulting in increased client satisfaction.
- Maintained comprehensive documentation in GitHub and facilitated high-level knowledge transfers for services and tools. Increased team expertise and decreased onboarding time for new staff members.

Network Engineer Intern | General Electric | February 2017 - September 2017

- Implemented configuration settings on Cisco switches, including port security, SSH, TCP/UDP, and IP protocols.
- Configured Cisco routers for IPv4/IPv6, including binary subnetting, routing protocols, and ACLs.

Desktop Support Technician | Year Up | September 2016 - July 2017

- Gained 500+ hours of hands-on experience in Help Desk/Desktop Support training.
- Provided comprehensive computer support, including installation, diagnosis, repair, maintenance, and upgrades.

Education**Technical Certification**, July 2017

- Year Up (Computer Science Program)

Volunteer Experience**Public Speaker/Campaign Coordinator | WTBS | September 2007 - Present**

- Volunteered in public speaking engagements at 14, demonstrating solid people skills and leadership potential.
- Promoted in 2012 to lead campaign projects, successfully meeting scheduled deadlines and achieving project goals.