## Robert Davis Jr.

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#### **SUMMARY**

Full Stack Developer and DevOps Engineer with 15 years of experience building and deploying scalable software and infrastructure. Strong background in AWS cloud architecture, CI/CD pipeline automation, and containerization using Docker. Skilled in orchestrating robust deployment workflows, maintaining production environments, and enabling development velocity through infrastructure automation and monitoring. Experienced in collaborating with cross-functional teams to optimize systems for performance, reliability, and scalability.

#### PROFESSIONAL EXPERIENCE

#### IT Specialist (Software Engineer), U.S. Census Bureau

Suitland, MD | 2014-Present

- Architected and maintained CI/CD pipelines in collaboration with DevOps teams, enabling rapid and stable code deployments across QA, staging, and production.
- Migrated legacy monolithic applications to Docker-based microservices deployed on AWS cloud infrastructure.
- Automated the provisioning and configuration of AWS resources using launch configurations, security groups, and EC2 scaling policies.
- Managed deployments of containerized applications on Linux servers (Red Hat, Ubuntu, CentOS) using Docker and shell scripts.
- Built and maintained LAMP-based applications (Linux, Apache, MySQL, Perl, Node, Angular) across multiple environments.
- Collaborated with stakeholders to streamline deployment workflows and align infrastructure with development goals.
- Troubleshot production systems, identifying bottlenecks, analyzing logs, and improving system stability.
- Participated in regular Production Operations, Cloud Architecture, and DevOps meetings to ensure platform reliability.
- Led performance testing of cloud applications using AWS virtual scale groups and simulated user loads.

### Systems Architect, SAUCE Concierge Services, LLC

Mitchellville, MD | 2015-2020

- Directed and implemented an IT strategy for a concierge start-up company.
- Served as Systems Architect to establish the best methodology to support the business' needs.
- Served as Full Stack (LAMP) Developer responsible for application (Linux, Apache, Python, MySQL).
- Migrated on-prem systems to AWS EC2 infrastructure, increasing uptime and system resilience.
- Developed cloud deployment strategies and implemented production-ready environments using Docker on AWS.
- Built Django web applications hosted on AWS (EC2), incorporating CDN (Cloudflare) for improved application delivery.

Established backup and recovery workflows and improved infrastructure observability.

### **Systems Software Engineer, Space Telescope Science Institute**

Baltimore, MD | 2011-2014

- Developed automated software tools to support the data pipeline for the James Webb Space Telescope (JWST).
- Lead developer on RESTful web service projects integrating Python and Java for NASA's space imaging systems.
- Built and tested applications on Red Hat Linux systems with a focus on system integration and reliability.
- I translated systems requirements into application prototypes.
- Developed test plans to verify login of new or modified programs.
- Conducted code reviews as part of routine quality assurance activities

#### **Computer Technician, Centers for Disease Control and Prevention**

Washington, DC | 2007-2011

- Supported CDC campuses with hardware and software troubleshooting, OS imaging, and Tier II escalation resolution.
- I provided on-site assistance, tracking calls, and analyzing call data for trends and common systems problems.

#### **Data Analyst, Computer Sciences Corporation (CSC)**

Hanover, MD | 2007

- Extracted and analyzed healthcare data using SQL, Unix shell scripting, and Autosys for job scheduling and automation.
- Primary responsibilities involved extracting and analyzing data/information from enrollment system and CRM to support the enrollment process for a healthcare management production operations department.
- Conducted analysis of healthcare data to identify and correct data anomalies and exceptions

#### **SKILLS**

## **DevOps & Cloud Tools:**

AWS (EC2, S3, IAM, CloudFormation), Docker, Jenkins, GitHub Actions, CI/CD Pipelines, CloudWatch, Log Analysis

### **Programming Languages & Frameworks:**

Python, Django, FastAPI, Flask, Java, JavaScript, Node, Angular, HTML, CSS, Shell Scripting,

#### **Infrastructure & Automation:**

Linux (Red Hat, Ubuntu, CentOS), NGINX, Apache, Vagrant, Bash

## **Database & Storage:**

MySQL, Postgres, Oracle, MongoDB

#### **Version Control:**

Git, SVN, CVS

# **CERTIFICATIONS & TRAINING**

- AWS Certified Cloud Practitioner
- UMD Robert H. Smith School of Business Artificial Intelligence and Career Empowerment

### **EDUCATION**

- BS, Computer & Information Sciences University of Maryland Global Campus
- BA, Sociology University of Pittsburgh

# **HONORS**

- Bronze Medal U.S. Census Bureau (2021)
- Special Projects Team Member CDC IT Division