
Keith Thomson

Cloud Solutions Developer

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OBJECTIVE

Versatile Cloud Infrastructure and Linux Systems Engineer with a strong Computer Science foundation and hands-on experience across AWS, Azure, GCP and hybrid environments. Skilled in infrastructure automation (Terraform, Ansible), containerization (Docker, Kubernetes), and secure system design leveraging IAM, SSO, and networking best practices. Adept at managing multi-platform environments (Linux, Windows Server) and optimizing CI/CD pipelines, middleware, and application performance to ensure scalability, reliability, and compliance.

SKILLS

Networking & Systems Administration

- Configuration, implementation, and maintenance of **LAN, WAN, VLAN, and hybrid network environments**.
- Administration of routers, switches, firewalls, and rack-and-stack setups. Routing and switching.
- **Windows Server and Linux** (RHEL, Ubuntu) administration, OS upgrades, patches and package management.
- Implementing Admin/User roles, permissions and policy management.
- Expertise in virtual environments: **VMware vSphere, Microsoft Hyper-V, VirtualBox, Vagrant VM Management**.

Cloud Computing & Infrastructure

- Experienced with **AWS (EC2, S3, RDS, Lambda, CloudFormation, IAM, CloudWatch, VPC, Route 53)** and **Microsoft Azure (VMs, Storage Accounts, VNets, App Services, AKS, Azure Monitor, Azure Active Directory)**.

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- Skilled in designing, deploying, and maintaining hybrid and multi-cloud architectures with focus on scalability, cost optimization, and security compliance.
 - Proficient with **Infrastructure as Code (IaC)** using Terraform, AWS CloudFormation, and Azure Bicep for automated provisioning and configuration management.
 - Knowledgeable in **serverless** computing frameworks such as AWS Lambda and Azure Functions for event-driven microservices and automation pipelines.
 - Deep understanding of **cloud networking** — VPCs, subnets, route tables, NAT gateways, VPN peering, and private endpoints.
 - Strong grasp of cloud identity and security management, including **IAM** policies, role-based access control (RBAC), Secrets Manager, Key Vault, KMS encryption, and Zero Trust principles.
 - Experienced with monitoring, observability, and cost management using **AWS CloudWatch, Azure Monitor, Grafana, Prometheus, and AWS Cost Explorer.**
 - Implemented backup, recovery, and **disaster recovery (DR)** solutions using AWS Backup, Azure Site Recovery, and multi-region replication strategies.

Programming & Automation

- Advanced skills in **Go, Python, C++, JavaScript, HTML, CSS, and SQL.**
- Knowledge of scripting and automation for system administration and DevOps workflows.
- **GitHub Actions**
- Data Structures and Algorithms
- Functional and Network Programming
- **Terraform** and **Ansible**
- Experienced with data synchronization between on-premises and cloud systems.

Technical Support & Collaboration

- Delivered Tier 1–3 technical support and customer service via remote and onsite channels.
- Experienced with **ticketing systems** and incident documentation.
- Collaborated cross-functionally to diagnose and resolve system, network, and application issues.
- Provided end-user and staff training on software, hardware, and new technologies.

EXPERIENCE

PennyBorne Development LLC, Detroit, MI (remote) - Systems Administrator, Product Developer

APR 2016 - 2021

- Curated and optimized content from diverse sources to align with user demand and engagement goals.
- Conducted research and comprehensive data analysis on user activities, search patterns, trending topics, and current events.
- Administered and maintained backend operations for a web application, multiple WordPress sites, and a client database.
- Co-designed and developed a portable, optimized payment portal.
- Utilized free and open-source APIs to create efficient, cost-effective services that translate into cost savings.

Valcor Engineering Corp – Springfield, NJ - Systems Administrator - Contract Specialist (Family business)

- Architected and administered hybrid computer systems, ensuring seamless integration and performance.
- Coordinated the installation, testing, and maintenance of critical software and systems.
- Engineered and implemented streamlined contract management processes, enhancing operational efficiency.
- Provided expert-level technical assistance for hardware, software, and network issues.

The Spice and Tea Exchange, Mystic, CT - Assistant Manager

APR 2016 - 2021

- Achieved consecutive annual sales growth of over 10%.
- Spearheaded social media management and event coordination efforts, garnering positive feedback and bolstering customer relations and public relations.

The Magetti Group, Groton, CT - Accounting Clerk

MAR 2012 - MAR 2015

- Rectified payroll discrepancies and identified entitlements corresponding to service members'
- occupation and rank. Identify special pay and incentives, proactive and resourceful in offering superior financial services to US Navy members.
- Issue payments and collect debts, handled wage garnishment and court orders, reconciled accounts payable and receivable ledgers with increasing accuracy.

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- Recorded financial transactions, maintaining accurate records of income and expenses, and updating financial statements.
 - Commit financial data into a database.

EDUCATION

CT State College, New Haven, CT - *Associate of Science - Computer Information Systems - Cloud Computing*

MAY 2022 - SEP 2024

Key Areas of Study:

- **Cloud Infrastructure & Services:** Deployed and managed services across major cloud platforms (AWS, Azure, GCP), focusing on compute, storage, and database solutions.
- **Automation & Scripting:** Developed automation scripts using Python and Bash; provisioned infrastructure using Infrastructure as Code (IaC) with Terraform.

Status:

- Graduated. A.S. Computer Science - Cloud Computing
- AWS Certified Cloud Practitioner

Southern Connecticut State University, New Haven, CT - *Bachelor of Science - Computer Science*

SEP 2023 - MAY 2026

Key Areas of Study:

- **Software Engineering:** Principles of software design, development methodologies, systems architecture, and workflow diagrams.
- **Low-Level Systems:** Digital logic, computer architecture, and circuit design using Boolean algebra.
- **Web & Database Development:** Systems design and application principles, database schema design, and API integration.
- **Network Engineering:** Fundamentals of network design, protocols, and infrastructure.

Status:

- Senior with 104 credit hours completed.
- Actively developing a senior Capstone research project.

CERTIFICATIONS

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- **CompTIA A+**
 - **W3 Certified C++ Developer**
 - **Amazon Web Services Cloud Practitioner**
 - **Google AI Essentials**
 - **Google Advanced Data Analytics**
 - **Partner, Google Developer Program**
 - **Partner, DigitalOcean**

MILITARY SERVICE AND LEADERSHIP

Infantry Squad Leader (*E-5*) | US Army | Fort Hood, TX & Baumholder, Germany
2007 - 2011

- Led approx. 10-soldier team in high-stakes operations in and around Mosul, Iraq - ensured mission success.
- 7th NCO Academy Graduate, Graphenwoer, Germany
- Recognized as the youngest Non-Commissioned Officer in the 3rd Heavy Brigade Combat Team, 1st Cavalry Division (~3,700 personnel) in 2008.

AWARDS

- 7th NCO Academy Graduate, Graphenwoer, Germany
- Soldier of the Quarter - Fort Hood, Texas - September 2008
- Combat Infantryman Badge
- Army Commendation Medal - 2
- Army Achievement Medal -2
- NATO Service Ribbon
- Iraq Campaign Badge with two (2) Campaign Stars
- Community Service Award - Killeen, TX - 2008

PROJECTS

Environmental Data Pipeline

Developed a robust data pipeline to ingest, process, and analyze environmental data from remote IoT sensors. This project showcases skills in data engineering, cloud services, and automation, providing valuable insights from real-world data streams.

Full-Stack Portfolio & Blog Platform

Engineered a personal portfolio and blog application from the ground up, demonstrating full-stack development capabilities. The platform features a dynamic frontend, a resilient backend API, and a database for content management.

Real-Time Polling Application

Built a full-featured polling application, showcasing abilities in real-time data handling and user interaction. This project highlights expertise in modern web technologies and backend development for interactive applications.

AI-Powered Object Detection System

Implemented an object detection model using computer vision libraries to identify and classify objects in images. This project reflects a strong understanding of machine learning concepts and their practical applications.

HOBBIES

- Surfing and snowboarding
- Reading (History, Philosophy and Computer Science)
- Family time.
- Little League Girls Softball - Mystic, CT - Assistant Coach (2022 - 2024)
- Traveling