**Manmeet Singh**

[LinkedIn](https://www.linkedin.com/in/manmeet-singh-5553b269/) | [GitHub](https://github.com/manmeet1515) | [Portfolio](https://www.singhincloud.net/) | [manmeet1515@gmail.com](mailto:manmeet1515@gmail.com) | Location: Perth | +61 405 174 493

**Professional Summary:**

Enthusiastic cloud and DevOps enthusiast with foundational knowledge in AWS, Terraform, and related technologies. Demonstrated ability to learn and implement cloud infrastructure and DevOps practices through personal projects. I am seeking a suitable role as Cloud/DevOps Engineer to leverage my passion for technology and problem-solving skills in a professional setting.

**Skills:**

* **Cloud Platform:** AWS
  + Proficient in deploying and managing EC2 instances, S3 buckets, and VPCs.
  + Familiarity and hands-on experience with IAM for secure access management.
  + CloudWatch to monitor the infrastructure.
* **Infrastructure as Code:** Terraform
  + Familiar with modules, state management, and Terraform Cloud for remote operations.
  + Terraform scripts and configuration files to provision AWS resources.
* **Containerization:** Docker
  + Familiar with creating and managing Docker containers, writing Dockerfile, and optimizing container images.
* **Version Control:** Git, GitHub
  + Familiarity with Git commands.
  + Familiarity with Managing GitHub repositories and secrets management.
* **CI/CD:** GitHub Actions, AWS CodePipeline
  + Familiar with workflows, actions, and secrets management to ensure secure and efficient deployment processes. I used it for the to-do application project.
  + Familiar with AWS CodePipeline to automate end-to-end software release processes. I used it to integrate with GitHub and S3 for my Tech Portfolio project.
* **Scripting and Automation:** Bash Scripting and Python.
  + Experience with using Bash scripting in conjunction with Cron jobs for scheduling tasks.
  + Familiar with Python libraries such as Boto3, for interacting with AWS services.
* **Operating Systems:** Linux (Ubuntu, Amazon Linux):
  + Comfortable with Linux command line, managing users and permissions.
  + Experience with package management (apt, yum), process monitoring (top, htop), and service management (systemctl).
* **Networking:**
  + TCP/IP, DNS, DHCP, Load Balancing.
  + Experience with Fortinet and Cisco suite of products.

**Transferable Skills:**

* **Technical Problem-Solving:** Developed strong troubleshooting skills through managing and resolving network and telephony issues in previous roles.
* **Project Management:** Experienced in planning, configuring, and deploying infrastructure projects, ensuring timely and efficient completion.
* **Collaboration and Communication:** Worked effectively in team environments and liaised with various stakeholders to ensure successful project outcomes.
* **Adaptability:** I quickly adapt to new technologies and environments, as evidenced by the successful deployment of both Cisco and Aruba network devices.
* **Customer Support:** Provided exceptional support to customers, ensuring high levels of satisfaction and operational excellence.

**Projects:**

* **AWS Three-tier Architecture:** Deployed a highly available web application using AWS services including
  + Route 53 for DNS.
  + VPC for network isolation.
  + Auto Scaling Group for scalability.
  + RDS for database needs. RDS was just spun up as a necessary part of the infrastructure, no schema was defined.
  + Detailed design documented on Medium.
* **AWS Resource Tracker Using Shell Scripting:**
  + Developed a Bash script to automate resource health checks using AWS CLI.
  + Scheduled script execution with Cron Job.
  + Detailed description on Medium.
* **CI/CD Pipeline for Tech Portfolio Website:** Implemented a CI/CD pipeline using:
  + AWS CodePipeline for continuous integration and continuous delivery.
  + GitHub as code repository.
  + Automating deployment to S3 with CloudFront for fast and secure content delivery.
  + DNS managed by Route 53.
  + SSL certification via ACM.
  + Project live at [Tech Portfolio.](https://www.singhincloud.net/)
* **To-do Application:** Built a basic to-do application using:
  + HTML, CSS and JavaScript for the frontend.
  + Containerized the application via Docker.
  + Built the image via Dockerfile using GitHub Actions workflow and finally deploying it on AWS.
  + AWS infrastructure created using Terraform.
  + Detailed description on [Medium.](https://medium.com/aws-in-plain-english/deploying-a-web-application-on-aws-ec2-with-github-actions-running-on-docker-container-part-1-58d5d14f3f05)
  + App can be accessed over internet on [http://tech-stuff.online.](http://tech-stuff.online/)

**Professional Experience:**

**System Administrator | VGW** (Oct 2023 – Current)

* Manage Fortinet suite of network equipment, including FortiGate Firewall, FortiAP, and FortiSwitch.
* Onboarding SaaS applications and integrating Single Sign-On (SSO) with Okta.
* Manage administration of Microsoft and Google Workspace.
* Managing AWS environment, including handling security alerts, spinning up new server instances, and providing support.
* Provided ongoing support for SaaS applications after onboarding, such as OpenVPN, NinjaOne, Proofpoint etc.
* Managing and resolving issues related to Google workspace and Microsoft 365 environments.
* Incident and change management through Jira.

**Network Administrator | Eagers Automotive** (Nov 2020 – Oct 2023)

* Deployed Cisco IP telephony infrastructure and configured Cisco and Aruba network devices.
* Managed IP telephony issues and network troubleshooting, enhancing technical problem-solving skills relevant to cloud networking.
* Supported IP telephony issues nationally and troubleshot network issues related to Cisco and Aruba deployments.

**Network Engineer | Datacom** (Feb 2020 – Aug 2020)

* Assisted in incident management and troubleshooting Cisco LAN issues, providing a strong foundation in network management.

**Voice Engineer | Automotive Holdings Group** (Sept 2019 – Nov 2019)

* Configured Call flows and IVRs on Cisco Collaboration platforms, demonstrated attention to detail and technical precision.
* Incident management through ServiceNow.

**Incident Management Senior Specialist | Orange Business Services** (May 2014 - Aug 2019)

* Implemented and supported Cisco Collaboration environment for services including Meeting and conferences, Unified Communications and Contact Center.
* Provided L2 support and ensured operational excellence.

**Education: Bachelor of Electronics and Communication**

Amity University, India

**Certifications:**

* AWS Certified Solutions Architect – Associate.
* Hashicorp Certified Terraform Associate.
* ITIL.