

# Tarun Vignesh Selvabalaji

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## TECHNICAL SKILLS

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- **Programming:** Python, Bash, Git, PowerShell, Linux (Ubuntu)
- **Cloud Computing:** [AWS Solution Architect Professional Certified \(SAP-C02\)](#), Terraform
- **DevOps Tools:** Docker, Kubernetes, GitHub, Vs Code
- **Environments:** VMWare, Microsoft Hyper-V

## TECHNICAL CERTIFICATIONS

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- **AWS Certified Solutions Architect Professional (SAP-C02)**
- **Cisco Certified Network Associate (CCNA)** soon to be completed.

## TECHNICAL EXPERIENCE

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**Tata Consultancy Services,**  
Systems Engineer

**Chennai, India**  
*June 2020–June 2023*

- Engineered and optimized Python scripts for managing hybrid cloud environments, reducing manual operations by 60% and enhancing automation efficiency.
- Integrated AWS solutions with on-premises infrastructure, supporting seamless cloud migrations and boosting overall system performance.
- Employed Terraform for automating AWS infrastructure provisioning and development environment deployment, optimizing for cost, security, and operational efficiency.
- Documented cloud and hybrid infrastructure architecture, ensuring adherence to best practices and effective knowledge sharing across teams.

## TECHNICAL PROJECTS

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### **Automated Hybrid Infrastructure Management**

- Orchestrated hybrid infrastructure automation with Python, reducing manual tasks by 40%.
- Leveraged cloud APIs (AWS) for dynamic resource provisioning based on performance metrics.
- Implemented Splunk for real-time monitoring and alerting, reducing downtime significantly.

### **[Workout Tracker using AWS Serverless App](#)**

- Built a Workout Tracker web app with AWS Lambda, API Gateway, and DynamoDB for backend operations and data storage.
- Created Lambda functions for handling data submission and retrieval, ensuring efficient serverless operations. (GET and POST REST API functions)
- Designed a frontend with HTML, CSS, and JavaScript to visualize workout data and interact with the API.

### **[Static Website Deployment with Terraform](#)**

- Deployed a static website to AWS S3 using Terraform
- Automated S3 bucket creation and CloudFront distribution setup with Terraform, ensuring efficient and scalable static site hosting.
- Managed AWS credentials and infrastructure through Terraform scripts, streamlining deployment and configuration processes for static websites.

## EDUCATION

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**UNIVERSITY OF WINDSOR**  
Master's in Engineering (Concentration: Computer Engineering)

**Windsor, Ontario, Canada**  
*Dec 2024*