Akshayarekha Subhramaniyan

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Professional Summary

Certified cloud professional with full-stack development skills, combining hands-on device testing experience at Amazon with expertise in database design, building scalable web apps, APIs, provisioning and automating cloud infrastructure across AWS and Azure. Experienced in CI/CD pipelines, system monitoring, DevOps, and integrating LLMs into modern applications. A dedicated and resourceful professional who takes pride in delivering high-quality results, overcoming challenges, and contributing to team success.

Experience

Device Associate |Amazon | India

DECEMBER 2021 – APRIL 2023

- Automated log analysis and UI/UX validation leveraging internal tools, reducing manual triage time and accelerating bug resolution.
- Experienced with JIRA, automation tools, and Agile Scrum. Collaborated with cross-functional teams across geographies to manage scope and execution.
- Led OS-level testing on Android/FireOS devices, including debugging, rooting, and device recovery.
- Managed end-to-end testing of devices and APKs under tight deadlines, balancing schedules, risks, trade-offs, and stakeholder expectations.
- Onboarded and mentored new team members, streamlining training processes and promoting best practices.
- Awarded "Extra Mile" recognition for independently resolving complex issues and driving impactful results.

Certifications

AWS Certified Cloud Practitioner
Amazon Web Services, March 2025

Microsoft Certified: Azure Fundamentals
Microsoft Azure, March 2025

Education

Cloud Architecture & Administration| **Seneca College| North York, CA**
SEPTEMBER 2024 – APRIL 2025

Database Application Developer| **Seneca College**| **North York, CA**
SEPTEMBER 2023 – APRIL 2024

Master of Business Administration | **Madras University**| **Chennai, IN**
APRIL 2020 – APRIL 2022

Bachelor of Technology (B. Tech CSE) | **Hindustan University| India**
APRIL 2016- APRIL 2020

Academic Projects
Seneca College, Canada | September 2023 – Present

Multi-Cloud Resource Platform
React, Node.js, Express.js, AWS ECS, ECR, Terraform, Ansible, Python, kinesis, DynamoDB, Azure SDK, Docker, GitHub Actions, NGINX

- Developed a cloud-agnostic resource monitoring platform for various AWS and Azure resource usage through a unified dashboard.
- Built RESTful APIs that leveraged AWS and Azure SDKs for real time integration with cloud platform APIs with DynamoDB as caching layer.
- Built real-time data pipelines with Kinesis for event streaming and logging with CloudWatch.
- Containerized frontend/backend services with Docker, automated provisioning with terraform, deployed to AWS ECS Fargate via ECR and managed config using Ansible.
- Configured NGINX reverse proxy for frontend routing and enforced service health using ECS task definitions.
- Applied DevOps best practises and automated CI/CD workflows using GitHub Actions to handle image builds, versioning, and blue/green ECS rollouts.

Smart Cleaning System| Technologies:
React, Spring Boot, MongoDB, JWT

- Developed web app with React UI, REST APIs (Spring Boot), and JWT-based authentication with MongoDB as backend also automated testing and CI/CD.

Product Management System
C#, .NET, Microsoft Visual Studio, SQL Azure, Azure App Service, Traffic Manager, VNet, Peering

- Designed and implemented database schema, stored procedure in SQL Azure and developed REST APIs with ASP.NET.
- Responsible for exception handling, logging, test and CI/CD automation.
- Applied RBAC, HTTPS, and secure coding practices

Technical Skills
- **Programming Languages:** Python, JavaScript, C#, Java, SQL
- **Frontend & Backend Development**: React, HTML5/CSS3, Node.js, Express.js, ASP.NET, REST API, Spring Boot.
- **Cloud Platforms & Services**: AWS (ECR, ECS, Lambda, VPC, S3, EventBridge, CloudWatch), Azure (VMs, ACR, ACI, VNets, Load Balancers, Private DNS, App Service, Azure Functions)
- **Automation & DevOps**: Terraform, Ansible, Git, CI/CD, Scripting (Bash, PowerShell)
- **Databases**: SQL Server, Azure SQL, PostgreSQL, CosmosDB, MongoDB, DynamoDB
- **AI Models & Framework**: LLM (GPT - 4o) , Prompt Tuning, Agent Platform – CrewAI
- **Data Processing & Visualization:** Power BI, DAX, Pandas, NumPy, BeautifulSoup (for web scraping)
- **Device Testing & QA:** Logcat analysis, UI/UX/mobile platform debugging, UAT, regression, black box, performance, load/stress, sanity, functional testing