HARSHITH SHETTY

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EDUCATION

Shah and Anchor Kutchhi Engineering College, Mumbai, India   **Expected: 2023**
Bachelor of Engineering (B.E.) **|** Major in Computer Engineering   GPA: 9.34/10.0

R.K.T College of Arts, Science & Commerce, Mumbai, India   **Grad: 2019**
Class XII (HSC) **|** Major in Science   Grade: 77%

CERTIFICATIONS

AWS Certified Solutions Architect - Associate (SAA -C02)	12/2021
Microsoft Certified: Azure Administrator Associate (AZ-104)	02/2022
Microsoft Azure Fundamentals (AZ-900)	09/2020
Google IT Support Professional Certificate	08/2020
Google IT Automation with Python	08/2020

PROFESSIONAL EXPERIENCE

Virtual Testing Foundation | Cybersecurity Intern | Remote   05/2022 – 07/2022
- Increased Knowledge in the domain of **Cybersecurity**, learned about **Android Hacking**, **Vulnerability**, **Threat Modelling**, etc.
- Worked with Hands-on concept of **Cryptography Authentication** and **Authorization** in Cybersecurity **Network-based threats** and **Security control** application-based threats.
- Learned about the concepts of **security**, **Compliance identity** and **Microsoft security.**

MedTourEasy | Kubernetes Trainee | Remote   01/2022 – 02/2022
- Increased Knowledge in the domain of **Cloud Computing**, learned about **Containerization**, **Kubernetes**, **Serverless**, etc.
- Learned and Worked on Basic GCP Services like **Compute Engine**, **Cloud Storage**, **IAM**, **Google Kubernetes Engine**, **App Engine**, etc.

Virtual Testing Foundation | Penetration Testing Intern **|** Remote   10/2021 – 12/2021
- Worked with Hands-on Labs of **OWASP Top 10** and its fundamentals.
- Conducted Pentests on web applications using penetration testing tools like **Burp Suite**.
- Performed **Vulnerability exploitations** and **penetration testing** on the provided servers. Hacking CTF with vulnerable environment professional **pentest report writing**.

PROJECTS

Drug Discovery using Quantum Computer   [on-going]
- Developed orchestrate workflows that run on a **quantum computer** to solve the drug discovery problem.
- **Amazon SageMaker** Notebook is used to design and debug drug discovery algorithms i.e, **Quantum Molecular Unfolding.**
- Workflows are based on **AWS Step Functions**. **AWS Batch** is used to batching evaluate algorithm performance.
- **Amazon QuickSight** is used to display the evaluation results.
Technology Stack: **AWS** | **Docker** | **Quantum Computing**

Vulnerability Testing & Analysis Using Serverless Computing
- Developed a **web application** that helps the user to carry out vulnerability tests on their server.
- The frontend is developed using **React** and the user's data is stored in the form of **NoSQL** in **Amazon DynamoDB.**
- The user's parameters are passed through **Amazon API** and testing is done by **Amazon Lambda** running **Python** script.
Technology Stack: **AWS** | **NoSQL** | **API** | **React**

Automated security testing into a CI/CD pipeline
- Deployed a **CI/CD pipeline** that is triggered on Pull Requests and builds and pushes a container image to an **Amazon ECR** repository.
- Different Stages of security testing are built within **AWS CodePipeline** for linting Dockerfiles, scanning for secret keys, and scanning for vulnerabilities including integration with **AWS Security Hub.**
- Used a combination of **Amazon CloudWatch** Event Rules and **AWS Lambda** Functions to create feedback loops for each stage of security testing.
Technology Stack: **AWS** | **Docker** | **CI/CD** | **Python**

Regional Language Compiler
- Developed a **web application** that helps users to program C/C++ code in a regional language **Hindi**.
- The front-end is developed using **React** and the backend is managed by **NodeJs.**
- The Docker Image of the application is stored in **Amazon ECR** and runs on **Amazon EKS.**
Technology Stack: **AWS** | **Kubernetes** | **Docker** | **React** | **NodeJs**

PUBLICATIONS

Breaking RSA Encryption Using Quantum Computer [International Journal of Research And Analytical Reviews] **[link]**

SKILLS

- **Azure**
- **AWS**
- **GCP**

- **Python**
- **Golang**
- **SQL**

- **Teraform**

EXTRACURRICULAR ACTIVITIES

Accenture Nordic Developer Program
Solutions Architect Virtual Experience Program