Swapnil Saxena

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Education

- **University of Petroleum and Energy Studies** Dehradun, India
  B.Tech CSE (Cloud Computing and Virtualization Technology) CGPA: 7.83   2020– 2024
- **Sacred Hearts Senior Secondary Public School,** Bareilly
  CBSE (Class XII) Aggregate: 79.8%   2019– 2020
- **Sacred Hearts Senior Secondary Public School,** Bareilly
  CBSE (Class X) Aggregate: 89%   2017– 2018

Technologies

Languages & Frameworks: Python, Java, Selenium, PyTest, OOPs, DSA
Cloud & DevOps: AWS, Azure, Jenkins, Git, GitHub, CI/CD
Testing & Design: Selenium Multi-Browser, Python API, PyTest, Page Object Model, Log4J

Experience

TopperWorld | Java Programming   *Certificate Link*   Feb '24- Mar '24
- Engineered an engaging **Java Number Guessing Game** incorporating user input, random number generation, and win/lose scenarios.
- Created a basic **ATM simulation** application that addresses the need for **secure** and **efficient** management of **user accounts**, allowing users to perform **fundamental banking operations**.

Celebal Technologies | Cloud Infrastructure and Security Department *Certificate Link*   May '23 – July '23
- Acquired fundamental understanding of the **Microsoft Azure** cloud platform through hands-on experience during the internship.
- Implemented **On-Premises** to **Hub** and **Spoke** connectivity utilizing **S2S tunneling** and **VNet Peering** for efficient network communication.
- Facilitated seamless **bi-directional** interaction between **On-Premises VM, Hub VM,** and **Spoke VMs** to optimize network performance and connectivity.

Projects

Project 1: *Automating form submission and e-commerce checkout* *Project Video*   *github.com/Selenium*

Selenium | Pytest | Python | Jenkins | Page Object Model | Pytest Parameterization

- Developed a web automation framework using **Selenium and PyTest** for form submissions and e-commerce workflows, implementing the **Page Object Model** (POM) for maintainable and reusable test scripts.
- Integrated **Pytest-HTML** for detailed **reporting** and **logging**, and conducted data-driven testing using **Pytest** parameterization for **multiple test scenarios.**
- Integrated tests with **Jenkins** for automated execution and reporting.

Project 2: *Implemented complete CI/CD Pipeline*   *Project Document*
AWS CodePipeline | GitHub | AWS CodeDeploy | AWS EC2

- Developed an **AWSCodePipeline** to streamline the progression of updates from our **GitHub repository** to the deployment of our application.
- Utilized **AWS CodeDeploy** to roll out the Python application on an **EC2 instance** for seamless deployment.

Project 3: *Deploying Server using VPC*

- Deployed a **production-grade Virtual Private Cloud** (VPC). Implemented **highly available server architecture** across two Availability Zones utilizing **Auto Scaling Groups** and an Application **Load Balancer**.
- Configured servers within private subnets with secure connectivity through a **NAT Gateway.**

Achievements

- **Celebal Internship**: Earned **Silver Badge** for exceptional performance, worked extensively with **Azure** services.
- **HackerRank: 4-star rating in SQL** proficiency and **SQL Basic Certification.**
- **AWS Academy**: Certified in **Cloud Foundation and Introduction to Cloud**, with **hands-on knowledge of AWS services** and infrastructure.