

Devanshi Savla

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SUMMARY

Software Engineer with experience in Full Stack Development, Cloud Computing and DevOps.

WORK EXPERIENCE

North Carolina Institute of Climate Studies | *Software Engineer* Mar 2024 - Present

- Leveraged **Pulumi IaC** to configure **300+** users, streamline access & manage **S3 data** across organization improving efficiency.
- Implemented **CI/CD pipeline** with **Flux** on **Kubernetes**, automating deployments and integrating monitoring stack, resulting in increased deployment speed and enhanced system reliability.
- Enhanced working visibility by developing cross-cloud monitoring pipeline utilizing **AWS, Turbot SteamPipe & Prometheus**.
- Improved efficiency & reliability with customized dashboards & alert systems, enabling proactive issue detection and resolution.

Volvo Group | *Software Developer Intern* May 2023 - Aug 2023

- Developed **Python automation** scripts with **pandas & openpyxl**, reducing manual efforts by **99%** for Volvo & Mack e-store.
- Enabled efficient project tracking & management by creating concise dashboards in **Jira** for Aftermarket Technology Dept.
- Proposed and led the development of an informative **Full Stack** application to organize data & metadata about various resources.

Walmart Global Tech India | *Software Engineer Intern* Jan 2022 - Jun 2022

- Developed chat-bot leveraging **Natural Language Processing** as a standalone reusable module that could significantly optimize query resolution process for suppliers and improve customer experience.
- Contributed to development of backend in **Node.js & MongoDB** and formulation of machine learning models by utilizing intent classification approach to improve the accuracy and response efficiency.
- Ensured quality and reliability of the app by developing **Selenium** based functional automation tests, reducing about **30%** bugs.

CrewScale | *Database Management Intern* Jun 2021 - Aug 2021

- Streamlined data collection process from over **800** websites through web scraping by using **Python Selenium & BeautifulSoup**.
- Delivered a resilient back-end **REST** module developed using **FastAPI** to improve accessibility of data collected from the web.

SKILLS

Languages: Java, Python, JavaScript, SQL, C/C++, HTML/CSS, TypeScript

Frameworks & DBs: Django, Flask, React, Spring Boot, Node.js, Angular, MySQL, MongoDB, PostgreSQL, REST, PHP, FastAPI

Tools & Technologies: AWS, Linux, Docker, Kubernetes, Jenkins, OAuth2.0, Git, Jira, Agile, Pulumi, Selenium, Turbot, Prometheus

EDUCATION

North Carolina State University | *Master of Computer Science* Aug 2022 - May 2024

Algorithms, Software Engineering, Cloud Computing, Automated Learning & Data Analysis

GPA: 3.53/4.0

Manipal University | *Bachelor of Technology in Computer and Communication Engineering* Jul 2018 - Jul 2022

Object Oriented Programming, Database Management Systems, Machine Learning, Operating Systems

GPA: 9.41/10.0

PROJECTS

Data Drizzle - Secure File Sharing and Storing Platform | *Software Engineering Project* Feb 2024 - May 2024

- Optimized user download speeds by employing multiserver strategy in a high-performance **Spring Boot & OAuth 2.0** backend.
- Dockerized** the application for streamlined deployment, scaling, and management, enhancing working efficiency and scalability.
- Ensured integrity and security by implementing a robust protocol that leverages file splitting, compression and **AES encryption**.

Healthcare Application Architecture on AWS | *Cloud Architecture | Academic Project* Aug 2023 - Dec 2023

- Designed a secure and scalable cloud architecture on **AWS** for a healthcare app by leveraging services like Elastic Load Balancer (**ELB**), Elastic Container Repository (**ECR**), Elastic Disaster Recovery (**EDR**), Kubernetes Service (**EKS**) etc.
- Conducted **three Kubernetes** experiments on load balancing with various **auto-scaling** configurations across **two** availability zones, optimizing resource allocation and improving system scalability **by 25%**.

Evolvo Project Management System | *Software Engineering | Academic Project* Sep 2022 - Dec 2022

- Engineered dashboard-based **Project Management System**, Evolo, offering comprehensive work tracking capabilities for group projects in organizations by employing **HTML/CSS, JavaScript, PHP & MySQL**.
- Automated the deployment of the app on **AWS EC2** by leveraging a **CI/CD pipeline** built with **Jenkins and GitHub Actions**, ensuring minimal downtime.

E-Medicare Portal | *Full stack Development Project | Hackathon* Sep 2019 - Dec 2019

- Led the development of an innovative **Full Stack** portal with the **MERN** stack (**MongoDB, Express, React, Node.js**) to facilitate seamless connections between doctors and patients.
- Enhanced patient care by implementing reports tracking, repeated prescriptions, and medication reminders, streamlining communication and reducing administrative workload for healthcare providers.