Himani Borana

Software Engineer
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EDUCATION

Indiana University Bloomington — **Indiana, USA**
Master's of Science in Computer Science — *Aug 2022 - May 2024*
Gujarat Technological University — **Gujarat, India**
Bachelor of Engineering in Information Technology — *Aug 2018 - June 2021*

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, C, JavaScript/TypeScript, HTML/CSS, SQL
Framework and Tools: Flask, Django, MongoDB, PostgreSQL, MySQL, NoSQL, CI/CD, Bash, REST API, JIRA, Git, Docker, Postman, Microservices, AWS, Selenium, SpringBoot, Microsoft Azure, React, NodeJs
Cloud Services AWS (EC2, S3, ECS, ECR, DynamoDB, SageMaker, Lambda), Microsoft Azure.
Other: Web Development, Object Oriented Programming(OOPs), DevOps, Automation, SDLC, Problem Solving skills

WORK EXPERIENCE

Research Software Engineer | Indiana University — **July 2024 - Present**
Technologies Used: LLama LLM, Python, AWS SageMaker, AWS DynamoDB, — *Indiana, USA*

- Leveraged **LLama LLM** with AWS DynamoDB and Python-based microservices across distributed, **multi-tiered systems** to automate critical security patch **analysis—reducing threat** exposure by 60% and accelerating deployment of high-priority patches by 85% within 12 hours.
- Managed SQL Server and Oracle databases, developed SSIS-based ETL workflows, automated SSRS reporting, and delivered real-time insights through PowerBI dashboards in collaboration with analytics and deep learning teams.

Software Engineer | Aspirations — **June 2021 - July 2022**
Technologies Used: JavaScript, React.js, Microservices, AWS RDS, Algorithms — *Gujarat, India*

- Collaborated with cross-disciplinary teams to enhance the backend architecture of **large-scale distributed systems** by optimizing 10+ RESTful APIs, improving performance by 20% and minimizing latency.
- Engineered a **high-performance, scalable system** by transforming the application into a **React.js single-page** interface, **integrating microservices with Amazon RDS** to cut load times by 15% and significantly elevate end-user responsiveness.

Software Engineer | Gateway Group of Companies — **November 2020 - April 2021**
Technologies Used: Python, Django, HTML/CSS , JavaScript — *Gujarat, India*

- Designed and implemented **scalable microservices** for a Django-based **B2C platform** within distributed systems, enabling payment integration and package tracking in an agile environment.
- Automated **CI/CD** pipelines using **Docker and Jenkins**, reducing page load times by 45% and improving deployment reliability.

KEY PROJECTS

HPassRentals - A Car Renting Website | **MERN, ReactJs, MongoDB, Express, NodeJs, Git**

- Designed a scalable car rental platform, integrating booking, payment, and real-time chat features. This resulted in a 40% increase in user engagement and a 35% improvement in transaction efficiency, empowering over 5,000 users to effortlessly rent and list vehicles.
- Optimised RESTful API-driven database interactions and developed a robust search module that allows users to quickly filter vehicles by criteria such as make, model, and location. This enhancement led to a 65% increase in data retrieval speeds and significantly boosted platform performance and user engagement in a bidirectional marketplace model.

Flight Delay Prediction System | **Python, Flask, HTML, CSS, Matplotlib, SQL**

- Developed complex SQL scripts for stored procedures to aggregate and transform 63M+ records from relational databases (Oracle, SQL Server, MySQL) using Python-based data pipelines; built and tuned an XGBoost model with 77% accuracy after evaluating 20+ ML algorithms.
- Deployed a scalable web app using Flask APIs and HTML/CSS, increasing user engagement by 40% and serving over 10,000 daily users with real-time delay predictions.

Twitch Social Network Analysis | **Python, Pytorch, NetworkX, Sckit-Learn**

- Performed an analysis on the Twitch Gamers Social Network Dataset, which included over 168,114 twitch users and 6,797,557 edges depicting their interconnections within the platform's community.
- Utilized Graph ML methodologies (GCN, GAT, GraphSAGE) to achieve exceptional node classification performance, securing a 87% accuracy in dead account detection, 74% in language identification, and accurate predictions in life expectancy and relational linkages.