Naman Shah

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Education

Stony Brook University, ***New York*** **August 2023 – Present**

Masters of Science in Computer Science *GPA: 3.67/4.0*

Coursework: Discrete Math, Data Science, Network Security, Visualization, Distributed Systems, TA CSE416

University of Mumbai, ***India*** **August 2019 – May 2023**

Bachelor of Technology in Information Technology *GPA: 3.7/4.0*

Coursework: Data Structures, Analysis of Algorithms, Operating Systems, Cloud Computing, Machine Learning

Achievements: Smart India Hackathon 2022 Finalist, Amrita InCTF 2021 Finalist, CSI Enigma 2020 Winner

Technical Skills

Languages and Databases: Go, Python, C, C++, C#, JavaScript, MS SQL Server, MySQL, MongoDB
Libraries and Frameworks: NumPy, Pandas, Tensorflow, Django, Flask, .NET, Node, React, Angular
Developer Tools: AWS, Docker, Linux, Bash, Git, Kafka, Splunk, BitBucket, Terraform, JIRA, Confluence

Experience

Tesla **May 2024 – Present**

Software Engineer Intern | *Go, Ginkgo, MySQL, Splunk, Kafka, Docker* *Fremont, CA*

- Introduced novel features and performance enhancements in Factory Software using Go to aid Model S, 3, X and Y production through end-to-end design, development, test and deployment across 6 Gigafactories
- Launched warehouse transfer workflow for Tesla Service Centers now facilitating move of 3000+ daily inventory volume across different regions with role based access control
- Collaborated with Operations Team on-site to engineer Kafka microservice performing part-location check prior to integrating serial inventory allowing 130% throughput in vehicle assembly lines
- Compressed address database archives down to 72% by inspecting Splunk logs and setting up pipelines for special character validation in EMEA region factories

Barclays Investment Bank **June 2022 – August 2022**

Software Engineer Intern | *C#, .NET, Python, MS SQL Server, AngularJs, LINQ* *Pune, India*

- Architected features for risk evaluation component of the Credit Sanctioning software handling flow of $2.75 billion, coordinating with the Analyst team in an Agile environment
- Designed a complex database architecture to incorporate an approval workflow, built Python scripts to automate database population of 800+ approval scenarios in MS SQL Server, reducing hours of manual work
- Developed a comprehensive pipeline using C#, .NET, Entity Framework, LINQ and stored procedure calls for efficient data processing, further integrated with custom made AngularJs application UI via APIs

Prixled Tech **September 2021 – November 2021**

Backend Developer Intern | *Django Rest, Docker, Redis, Celery, AWS, PostgreSQL* *Mumbai, India*

- Delivered highly scalable logic implementation using Rest Framework, utilized Redis Celery combination to establish cron jobs for scheduled API triggers
- Containerized services using Docker, setup EC2, RDS, S3, Route 53 servers and configured Nginx with reverse proxy
- Spearheaded beta release of application, forming an efficient pipeline and migrating deploy from Heroku servers to Amazon Web Services, resulting in 67% reduction in response times

Projects

Jumproxy | *Go, TCP, Kali, AES256, PBKDF2, SSH* **CSE508: Prof. Polychronakis**

- Built proxy server in Go to tunnel traffic between clients and publicly accessible TCP services, securing data transmission through two-way AES256 encryption
- Devised TCP fingerprinting tool running on Kali VM to identify and procure information on target range of 1000+ open ports through series of probe requests

WebDACE | *PyTorch, RAKE-NLTK, LDA, Neo4j AuraDb, NumPy, Pandas* **R&D: Prof. Ashwini Dalvi**

- Trained multi-model service to analyze obscure URLs leveraging custom LDA classifier with 82% accuracy, semantic searches and Neo4j graphs visualizing cross-page topic associations on 120k training data
- Utilized TF-IDF and LSA summarization approach to publish analysis of 17k+ dark web archives in Microsoft Journal

QBaG | *Django Rest, JWT, PostgreSQL, ReactJs, PyTorch* **Smart India Hackathon 2022**

- Formulated a crowdsourcing model for exams with an automated voting system through Django and ReactJs
- Implemented SBERT model for detection of semantically similar questions reducing database redundancy by 75%