SIDDHESH SHINDE

Software Engineer / Backend Developer · +1(607) 313-0780 · Binghamton, NY

sidshinde314@gmail.com · linkedin.com/in/siddheshshinde314 · github.com/Shenr0n

SKILLS

Languages	Python, Java, Go (Golang), SQL, C, JavaScript, HTML5/CSS3
Databases	MySQL, MongoDB, PostgreSQL, Redis, SQLite, Firebase
Backend	Spring Boot, Django, Gin, Nginx, Apache, Kafka, Hibernate, sqlc, REST, JSON APIs, GraphQL
Tools	Git, AWS (EC2, RDS, S3, Lambda), Docker, Kubernetes, Postman, Jira
Other Skills	MVC, Microservices, SOA, NoSQL, ORM, OAuth, JWT, PASETO, Spring Security, React, Tailwind, htmx, templ, Bootstrap, XML, NumPy, Pandas, Qiskit

PROFESSIONAL EXPERIENCE

Machine Learning Security Research Intern   Aug 2023 - Present
Binghamton University

- Researched over 45 studies on Deep Learning applications, Neural Networks, ML Security and Privacy.
- Implemented adversarial attacks in ML with backdoors, trojans, data poisoning, achieving over 90% accuracies.
- Explored security challenges and mitigation strategies in hardware platforms of deep learning applications.

Assistant IT Manager   Jan 2022 - May 2023
Binghamton University Dining Services

- Managed over 7000 inventory, recipe, menu and invoice entries in database (Inventory software and MS SQL).
- Installed, configured and maintained IT infrastructure for 5 dining halls and over 20 outlets.

PROJECT EXPERIENCE

Banking Backend (Code Repository)

- Developed over 15 REST APIs for admin and user operations, including user and account management, and seamless transactions, using Go, Gin, PostgreSQL, sqlc.
- Created authentication middleware to authorize API requests, with PASETO, and built exhaustive unit tests.
- Implemented CI/CD pipelines for automated testing, database migration, containerization, and deployment, utilizing Github Actions, Docker, Kubernetes, Amazon Web Services (ECR, RDS, EKS and IAM).

Microblogging Social Media (Code Repository)

- A full-stack web application mirroring X's functionality using Java 17, Spring, React, Tailwind CSS and MySQL.
- Designed 17 REST APIs, 16 functionalities for users, with MVC architecture, DAOs and DTOs.
- Implemented multimedia-rich post capabilities, social interactions, account and profile management, sessions.
- Utilized Java Persistence API for ORM, and Spring Security with JWT, Redux for state management, and MUI.

Impact of US elections on social media (Code Repository)

- Built a custom Python web scraper with OAuth2 and Reddit API to gather 485k unique political JSON objects.
- Utilized MongoDB, and conducted analysis on 10 topics, 3 sentiments and 8 emotions using NRC Emotion Lexicon and VADER. Constructed an emotion score prediction model using NumPy, Keras and TensorFlow.
- Performed Data Visualization by plotting interactive graphs using Bokeh and Matplotlib.

Employee Management (Code Repository)

- Developed a web application with role-based authorization and designed 9 APIs to manage employee details.
- Utilized Java 8 with Spring Boot and Spring MVC, Spring Security with JDBC authentication.
- Used MySQL database, Spring Data Java Persistence APIs for ORM, and Thymeleaf to create Web UI.

EDUCATION

Masters in Computer Science   Aug 2021 - May 2023
Binghamton University, State University of New York   (GPA: 3.67/4.0)
Coursework: Design Patterns, OS, Data Mining and Privacy, Social Media Data Science Pipeline, Computer Security.

Bachelors in Computer Engineering, University of Mumbai   2015 - 2019
Research Publication: Road Surveillance System, Journal of Applied Sciences and Computations, ISSN No: 1076-5131