

SIDDHESH SHINDE

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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, JUnit, React, Tailwind, htmx, templ, Bootstrap, XML, NumPy, Pandas, Maven, Tomcat, Linux

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

Fitness Tracker with AI powered trainer [github repository]

- Engineered 25 REST APIs for tracking workout routines, nutrition, customizable exercises, and health progress.
- Integrated OpenAI API for a personalized chatbot, leveraging user's data for tailored diet and fitness guidance.
- Utilized Go with Gin, PostgreSQL, and sqlc for implementing CRUD services and authentication middleware.
- Leveraged PASETO for user session and authorizing API requests, and Docker for containerization.

Banking Backend [github repository]

- Developed over 15 RESTful 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 [github 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 [github 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.

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