Shivang Raikar

Boston, MA | +1 857-366-3829 | shivangraikar@gmail.com | linkedin.com/shivang-raikar | github.com/shivangraikar | shivangraikar.github.io

EDUCATION

University of Massachusetts   **Boston, Massachusetts**
Master of Science in Computer Science (GPA: 3.7)   **Sep 2021 - May 2023**
Coursework: Neural Networks, Applied Machine Learning, UI/UX Design, Biomedical Signal and Image Processing

University of Mumbai   **Mumbai, India**
Bachelor of Engineering in Computer Engineering (GPA: 8.69/10)   **Aug 2018 - Jun 2021**
Coursework: Data Structures and Algorithms, Database Systems, Distributed Systems, Machine Learning, Operating Systems

PROFESSIONAL EXPERIENCE

University of Massachusetts   **Boston, Massachusetts**
Teaching Staff, Computer Graphics, CS 460 and Introduction to Software Engineering, CS 410   **Sep 2022 - May 2023**
- Contributed towards mentoring 4 project groups, 15+ students with project development, doubt-solving, and collaborations.
- *Technologies: Scrum, ThreeJS, WebGL, Javascript*

Crane Payment Innovations   **Malvern, Pennsylvania**
Software Engineering Intern   **Jun 2022 - Aug 2022**
- Spearheaded **60** test automation scripts and refactored **70** scripts in the CI/CD pipeline, improving the overall testing time by **60%** and reducing the execution per test cycle from **5 weeks to 2.5 weeks** required.
- Facilitated agile delivery through **Jira** integration. Partnered with cross-functional teams to align priorities and planning.
- Worked in a scrum team of **5 - 7** developers to follow the agile framework contributing to in-house Easitrax web application to ensure test reliability on admin portals and internal tools.
- *Technologies: Java, Selenium, TestNG, Jenkins, Maven*

Stokes Automotive   **Mumbai, India**
Software Engineering Intern   **Jan 2021 - Jul 2021**
- Co-led a web development team to build a production-ready app to increase user engagement by **20%** through analytics-driven deployment followed by comprehensive **unit and functionality** testing on prototypes leveraging **150 automated test cases** for alerts, logs, shopping cart, payment gateway, and emails.
- Drove project success by establishing best practices and achieving **18** weekly deliverables. Led business administration utilizing SDLC methodology and agile project management in addition to routine code reviews.
- Guided initial efforts for adopting Docker containerization practices. Created infrastructure and workflows to enable container deployment of web applications.
- *Technologies: Bootstrap, MySQL, Docker, REST*

Diazaonic Labs   **Mumbai, India**
Data Science Intern   **Jun 2020 - Oct 2020**
- Coordinated a series of virtual networking sessions and facilitated introductions between **30+ peers** on LinkedIn, GitHub, and technical platforms; generated over **20 new** business leads and increased overall networking ability by **50%.**
- Designed python scripts for **8 parameter** selection and input/output image read and write operations.
- Automated image processing workflows in Python, cutting output time in half from **5 to 3** seconds using NLP and web scraping libraries including NLTK, Stopwords, WordCloud, and Wikipedia to optimize performance.
- *Technologies: Python, Django, Deep learning*

PROJECTS

Data Science Unicorn (Link**)**   *Python, Streamlit, AWS*
- Led a team in creating and hosting a web tool to predict the salary of a Data Scientist by considering 15 input parameters aligning with a real-life datasets survey of 10,000 working individuals.

WordCloud Kit (Link**)**   *Python, Heroku, FlaskApp*
- Engineered a real-time web application to ingest an input string, process it, and generate a wordcloud to visualize summary data. Produces a summary of large documents (reports, speeches) to create art on a topic or to visualize data.

Climate Clock (Link**)**   *Python, Flask, SQL, Swift, Pythonista*
- Built an iOS application that serves as a live climate clock that monitors and tracks 7 data streams. Brainstormed problem-solving and critical thinking abilities. Open source: https://climateclock.world/

RESEARCH & CERTIFICATIONS

- **Raikar, S.**, Nagarkar, P., Zantye, A., & Khan, A. (2020, July). Twitter Data Mining for Targeted Marketing. In *2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA)* (pp. 44-50). IEEE. (Paper)
- **Raikar, S.**, Mhatre, V. (2018, January). Security system in Sensor Networks. *Winner at Mumbai University,* Paper presentation
- Software development essentials by *Microsoft*, Web programming by *Harvard University*, Summer academy energy careers growth by *National Grid*.

SOFTWARE SKILLS

- **Languages:** Python, C, C++, Java, JavaScript, GoLang, HTML/CSS
- **Tools and IDE:** Git, GitHub, PyUnit Selenium, VSCode, NetBeans, JUnit, CI/CD, Docker, Kubernetes, Containerization
- **Databases/Cloud:** SQL, MySQL, MongoDB, PostgreSQL, AWS, GoogleCloud platform
- **Frameworks/Libraries:** REST, Django, Flask, ReactJS, Scikit-learn, Streamlit, PyTorch, OpenCV