

# Shivang Raikar

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## EDUCATION

### University of Massachusetts

#### Master of Science in Computer Science (GPA: 3.7)

Coursework: Neural Networks, Applied Machine Learning, UI/UX Design, Biomedical Signal and Image Processing

Boston, Massachusetts

Sep 2021 - May 2023

### University of Mumbai

#### Bachelor of Engineering in Computer Engineering (GPA: 8.69/10)

Coursework: Data Structures and Algorithms, Database Systems, Distributed Systems, Machine Learning, Operating Systems

Mumbai, India

Aug 2018 - Jun 2021

## PROFESSIONAL EXPERIENCE

### University of Massachusetts

Teaching Staff, Computer Graphics, CS 460 and Introduction to Software Engineering, CS 410

- Contributed towards mentoring 4 project groups, 15+ students with project development, doubt-solving, and collaborations.
- Technologies:** Scrum, ThreeJS, WebGL, Javascript

Boston, Massachusetts

Sep 2022 - May 2023

### Crane Payment Innovations

Software Engineering Intern

- 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

Malvern, Pennsylvania

Jun 2022 - Aug 2022

### Stokes Automotive

Software Engineering Intern

- 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

Mumbai, India

Jan 2021 - Jul 2021

### Diazaonic Labs

Data Science Intern

- 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

Mumbai, India

Jun 2020 - Oct 2020

## 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