

# SHREY KISHOR DEDHIA

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## Education

### Stony Brook University

*Master of Science in Computer Science*

**May 2024 (Expected)**

*New York, United States*

### Dwarkadas J. Sanghvi College of Engineering (University of Mumbai)

*Bachelor of Engineering in Computer Engineering (CGPA - 9.67/10)*

**June 2022**

*Mumbai, India*

## Technical Skills

**Languages:** JavaScript, Python, C++, C, SQL, Bash, HTML, CSS

**Software & Tools:** ReactJS, Django, Django Rest Framework, MySQL, PostgreSQL, Git, Vue.js, D3.js, Pandas, NumPy, scikit-learn, TensorFlow, MongoDB, BeautifulSoup4, Splunk, Wireshark, Heroku, Docker, LaTeX

## Work Experience

### Stony Brook University - Graduate Teaching Assistant

**August 2022 – Present**

*ISE 305: Database Design and Practice - Prof. Praveen Tripathi*

*New York, United States*

- Resolving students' queries on relational data modeling, database administration, SQL, and application development.
- Proctoring 120 students, grading tests/assignments, and conducting office hours.

### JPMorgan Chase & Co.

**June 2021 – August 2021**

*Software Engineer Intern - Corporate & Investment Banking (CIB) Team*

*Mumbai, India*

- Automated a 12 year-old procedure of detecting unstructured and dynamic errors in real-time machine data logs across 30+ servers during CI/CD process. Used Splunk, PuTTY and SSH to access remote Unix servers.
- Constructed an interface on private cloud to switch data centers by user-traffic, reducing operation time from 5 hours to 30 minutes.

### ReWiser Educational Services Pvt. Ltd.

**May 2020 – July 2020**

*Software Developer Intern*

*Mumbai, India*

- Designed and developed a human resource management system, and created the software documentation.
- Optimized the database structure, utilized CronJob for less latency and lowered computational overheads by 45%.

## Projects

### Vision Acolyte | GANs, TensorFlow, GloVe, spaCy, Python

**July 2021 – May 2022**

- Devised methodology on GANs and T5 model to build text-to-video framework for children with cognitive impairments.
- Performed extensive literature review and achieved R-precision of 3.31, surpassing 1.51 by previous StoryGAN model.
- Won 3rd position in Prakalp 2022, SFIT Mumbai (inter-college project competition).

### Quicure | Node.js, Express.js, bcrypt, MySQL, React

**July 2020 – November 2020**

- Developed a full-stack software focused on expediting consultancy and booking at hospitals/clinics.
- Modeled the database schema, handled concurrency control, triggers, locks and JWT authentication & authorization.

### Food For Good | Django, React, SQLite

**February 2020 – May 2020**

- Created an ingredient-ordering e-commerce website intended to alleviate food availability problems during COVID-19.
- Utilized structured SQL data, built cart functionality, intuitive user interfaces, and integrated APIs.

## Research & Publications

- A novel dual model approach for categorization of unbalanced skin lesion image classes**, *5th International Conference on Computational Vision and Bio-Inspired Computing 2021* (Springer). (DOI: [10.1007/978-981-16-9573-5\\_45](https://doi.org/10.1007/978-981-16-9573-5_45))
- Domain adaptation and weight initialization of neural networks for diagnosing interstitial lung diseases**, *International Journal of Imaging Systems and Technology* (Wiley). (DOI: [10.1002/ima.22716](https://doi.org/10.1002/ima.22716))
- Color Image Encryption Architecture Based on a Novel Confusion Approach and Multi-Chaotic Mapping**, *Journal of Information Security and Applications, Impact Factor - 4.96* (Elsevier). (Accepted with minor revision)

## Leadership

### DJ Unicode

**August 2019 – July 2022**

*Senior Mentor*

*Mumbai, India*

- Mentored 9 sophomores over two open-source projects : 'Transcripts Portal' and 'Events-Management System'.
- Supervised 80+ mentees and prepared exhaustive technical assignments during 10-week 'sophomore learning period'.