

# YUG DEEPAK RAJANI

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## EDUCATION

### NORTHEASTERN UNIVERSITY

*Candidate for Master of Science in Computer Science*

Khoury College of Computer Sciences

Boston, MA, United States

Jan 2023 - May 2025

GPA: 4.0 / 4.0

Relevant coursework: Program Design Paradigms, Algorithms, Database Management Systems, Cloud Computing (AWS)

### DHARMSINH DESAI UNIVERSITY

*Bachelor of Technology in Computer Engineering*

Faculty of Technology

Nadiad, Gujarat, India

Jun 2017 - May 2021

GPA: 4.0 / 4.0

## TECHNICAL SKILLS

<b>Fundamental Concepts:</b>	Design Patterns, Data Structures and Algorithms, Operating Systems, OOP Concepts
<b>Programming Languages:</b>	Java, Python, JavaScript, Golang, C++, C#, C, SQL
<b>Web Technologies:</b>	React.js, Angular, Node.js, Express.js, GraphQL, AJAX, Redux, Flutter, HTML, CSS, Bootstrap
<b>Databases:</b>	MySQL, PostgreSQL, MongoDB, SQLite, Elasticsearch, Firebase, Google Cloud's BigQuery
<b>Tools and Frameworks:</b>	Elasticsearch, Logstash, Kibana, Splunk, Keras, Tensorflow, NLTK, AWS, Jira, Docker, Cypress

## PROFESSIONAL EXPERIENCE

### Veeva Systems

Boston, MA, United States

**Software Engineer Intern** | *Java, Object Oriented Design*

May 2024 - Present

- Redesigned event tracking with batch processing and a controller-based workflow, increasing processing efficiency by 60% and supporting a new API version. Utilized **abstract factory design pattern** to **minimize code smell**.
- Streamlined update restriction for a key item group in Veeva Vault clinical, ensuring secure **production deployment**.

### Northeastern University

Boston, MA, United States

**Graduate Teaching Assistant** | *Database Management Systems, MySQL, Java, Python*

May 2023 - May 2024

- Evaluating a class of over 200 students in constructing and troubleshooting solutions in **Database Design** (CS 3200) and **Database Management Systems** (CS 5200), incorporating **MySQL**, **MongoDB**, and practical applications.
- Crafted a hands-on assignment on **MongoDB** filters, enhancing students' practical skills in querying data efficiently.

**Graduate Research Assistant** | *Python, Shell Scripting, Linux*

May 2023 - Aug 2023

- Spearheaded collaborative **5G mm wave analysis**, developing visual insights through rigorous measurements.
- Co-authored forthcoming research paper, outlining **wireless networking** applications and **data analysis** techniques.

### Crest Data Systems

Ahmedabad, Gujarat, India

**Software Engineer** | *Python (FastAPI), React, Docker, Elasticsearch, Kibana*

May 2021 - Oct 2022

- Leveraged **Python** and **React** in cross-functional collaboration to engineer full-stack features for Cisco Insight Hub.
- Orchestrated the **Docker** deployment strategy, decreasing the deployment time from 30 minutes to 5 minutes.
- Optimized Cisco SD-WAN report generation using **Python FastAPI** `async/await` for 2+ concurrent user actions.
- Contributed to **Open Source** with 10+ **Elasticsearch** integrations and Beats modules for **Security** and **Observability**.

**Software Engineer Intern** | *Python (Flask), Splunk, PostgreSQL*

Dec 2020 - May 2021

- Utilized **Python** to add support for migrating visualizations, alerts, and saved searches from **Elasticsearch** to **Splunk**.
- Automated verification of ingested data into visualizations using **Selenium**, cutting testing time by more than 80%.
- Coordinated with 5+ developers to develop Pagerduty and Slack alert migration functionality using **Python**.
- Created **RESTful APIs**, performed integration and unit testing using **PyTest**, achieving 10% higher test coverage.

## PROJECTS

**Fake Stack Overflow** | *MongoDB, Express.js, React.js, Node.js, HTML, CSS, JavaScript*

Oct 2023 - Dec 2023

- Created a scalable Q&A app with **React**, **Node.js**, **MongoDB**, achieving a 30% reduction in page load times.
- Implemented comprehensive **Cypress** tests, resulting in a 20% decrease in bugs, ensuring a robust user experience.

**Visual Image Manipulation and Enhancement** | *Java, JavaFX, Swing, Object Oriented Design*

Mar 2023 - Apr 2023

- Constructed a robust **Java** system with **Swing** UI, **SOLID** principles, design patterns, achieving 50% code mitigation.
- Tested end-to-end flow using **Test Driven Development** to ensure intended behavior with >80% test coverage.