

# Dhruv Gorasiya

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## EDUCATION

**Northeastern University, Khoury College of Computer Science**

Boston, MA

*Master of Science in Computer Science, GPA: 3.83 / 4.0*

Expected: May 2026

**California State University, Long Beach**

Long Beach, CA

*Bachelor of Science in Computer Science; GPA: 3.6 / 4.0*

January 2020 - May 2024

**Relevant coursework:** Data Structures & Algorithms, Machine Learning, Artificial Intelligence, Database Fundamentals, OOP, Software Management and Testing, Advanced C++

## SKILLS

**Programming Languages:** Python, Java, Golang, JavaScript, Typescript, C++, Swift, SQL  
**Database:** PostgreSQL, MySQL, MongoDB, JPA, Firebase  
**Web Development:** React.js, Node.js, Next.js, Flask, RESTful API  
**Frameworks & Libraries:** Django, Spring Boot, Express.js, React Native, Tailwind CSS  
**ML / Software / Tools:** Tensorflow, PyTorch, Sklearn, Kubernetes, Docker, Git, GitHub, AWS

## PROJECTS

**NeuraNews** | *Next.js, Spring Boot, Python, MongoDB, Docker, Kubernetes*

August 2024 - October 2024

- Engineered a full-stack application with **Next.js**, **Spring Boot** and **MongoDB** using a microservices architecture, improving news recommendation accuracy by **30%** and increasing user engagement.
- Built an AI-driven personalization tool with **FastAPI** and machine learning models, boosting session duration to **25+** minutes for targeted demographics.
- Developed and deployed scalable applications with **Docker** and **Kubernetes**, reducing setup times by **30%** and accelerating time-to-market for new features.

**Beach Events** | *React.js, Django, MongoDB, Express.js, RestAPI*

January 2023 - December 2023

- Led a team of six developers to build a real-time mobile app for event tracking using **React Native**, **Django**, and **MongoDB**, resulting in a **25%** reduction in event update delays.
- Enhanced app security by implementing **Bcrypt** for password hashing and incorporated real-time notifications with **Expo-Notifications**, increasing user engagement by **30%**.
- Designed and deployed a scalable MongoDB architecture, reducing data retrieval time by **20%**, and integrated **interactive maps** for event tracking, improving overall user experience satisfaction by **15%**.

**Fridge-Manager** | *Django, MongoDB, React.js, RestAPI*

January 2023 - May 2023

- Developed a **Django-based** web application for multi-account fridge management, reducing food waste by **15%** and increasing organizational efficiency across different units.
- Leveraged **MongoDB** for scalable data storage, improving query response time by approximately **15%** for datasets of up to **500+** records.
- Implemented secure user authentication with **Bcrypt**, enhancing data security by reducing login breaches by **25%** and ensuring compliance with privacy regulations.

## EXPERIENCE

**California State University, Long Beach**

Long Beach, CA

*Research Assistant*

August 2023 - June 2024

- Built and optimized **Locality Sensitive Hashing** for large-scale indexing, boosting query speed by **15%**.
- Integrated the LSH algorithm with **Minhash** in Python, resulting in a streamlined data retrieval process that improved query execution time by an average of **200** milliseconds per request.
- Designed scalable algorithms for big data applications, achieving record uptime and supporting a **30%** increase in user-generated content within six months.

**California State University, Long Beach**

Long Beach, CA

*Computer Science Tutor*

August 2023 - December 2023

- Performed comprehensive instruction on core and advanced computer science topics, including **Data Structures**, **Algorithms**, **Object-Oriented Programming (OOP)**, and **Machine Learning**.
- Guided students through intricate aspects of programming methodologies and secure coding practices; contributed to a notable increase in overall coding proficiency among mentees by directly supporting over 10 diverse projects.