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, Flask, FastAPI, 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.