

# SUNNY DHAMA

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## EDUCATION

### University of Florida

August 2022 - May 2024

Master's, Computer Science

GPA: 3.77

- Distributed Operating Systems; Database Management Systems; Software Engineering; Computer systems

### Jaypee Institute of Information Technology

July 2017 - May 2021

Bachelor's, Computer Science

GPA: 7.8

- Artificial Intelligence; Machine Learning; Data Structures; Database Systems; Algorithms; OOP; Computer Engineering

## PROFESSIONAL EXPERIENCE

### University of Florida

Gainesville, FL, USA

Graduate Research Assistant

October 2022 - Present

- Developed and optimized a React and Django-based educational platform, directly impacting 100+ students with potential for national expansion, part of a \$1 million NSF project to transform middle school science education
- Enhanced platform efficiency within Docker and ALB, contributing to a 30% less computation on virtual cores
- Innovated with Flutter applications to enable real-time health metric sharing in sports activities, achieving a 22% reduction in battery consumption for smartwatches with BLE, complemented by a robust analytics dashboard built with React

### Scaler Academy

Bengaluru, Karnataka, India

Software Engineer

February 2021 - August 2022

- Led the development of a Monaco editor-based code editor in React, increasing code submissions to 7 million per year, driving global coding practice and assessment
- Engineered a patent-filed JavaScript-based TimingObject HLS video streaming solution, enhancing user engagement by 50% and reducing instructor load by 2x
- Optimized JavaScript and Webpack configurations, reducing dashboard load times from 4.17s to 2.24s, and developed robust APIs and comprehensive tests in Ruby on Rails with SQL integration, adhering to MVC patterns for improved user experience, accessibility, and scalability

### Remedico

Bengaluru, Karnataka, India

Software Engineering Intern

May 2020 - August 2020

- Developed 20+ reusable React components, resulting in an 8% reduction in redundant codebase size
- Modernized Doctor's onboarding portal in React Native comprised of 3 screens with AntDesign design language

### DailyKIT

Bengaluru, Karnataka, India

Software Engineering Intern

February 2020 - June 2020

- Developed client-side web pages using React and integrated them with GraphQL and Hasura REST API framework
- Wrote frontend test cases in Jest for reusable React components
- Deployed storefronts for meal-kit delivery services across 3 companies in the USA

## PROJECTS & OUTSIDE EXPERIENCE

### TWITTER CLONE - DISTRIBUTED SYSTEMS IN ERLANG

Gainesville, FL, USA

Developer

August 2022 - December 2022

- Developed a real-time Twitter Clone in Erlang, implementing multi-threaded interactions via WebSockets
- Crafted a JSON API and Erlang client simulator to devise a multi-threaded user engagement and testing environment

### DIABETIC RETINOPATHY DETECTION - COMPUTER VISION

Noida, Uttar Pradesh, India

Developer

January 2020 - March 2020

- Pioneered a computer vision platform to predict retinal carcinogens from angiographic images with 84.4% accuracy using machine learning algorithms

### JIIT COMPANION - REACT NATIVE MOBILE APP

Noida, Uttar Pradesh, India

Developer

August 2019 - January 2020

- Developed and launched "JIIT Companion" mobile app using React Native, NodeJS, and MongoDB, achieving 5K+ downloads and 4+ star rating on Google Play Store.

## SKILLS

**Hard Skills:** Python, C/C++, JavaScript, JAVA, HTML, CSS, React, Django, Flask, Springboot, Node.js, SQL, MongoDB, Git, Docker, Kubernetes, Jenkins, AWS, Data Analysis, GCP, Data Science, REST APIs, Vue.js, Angular, CI/CD, Jest, Terraform, Distributed Systems, Web Applications, Virtual Reality

**Soft Skills:** Leadership and Team Management, Critical Thinking and Problem-Solving, Effective Communication and Presentation, Adaptability and Continuous Learning, Time Management and Organization, Teamwork, Creativity