

# 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 Architecture

### 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; Agile Methodologies

## PROFESSIONAL EXPERIENCE

### University of Florida

Gainesville, FL, USA

Graduate Research Assistant

October 2022 - Present

- Developed a full-stack React and Django-based educational platform, directly impacting 100+ students with potential for national expansion, part of a \$1 million NSF project to integrate NLP/AI into middle school curriculum
- 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 designed with React
- Enhanced platform efficiency within Docker and ALB, contributing to a 30% less computation on virtual cores
- Implemented automated testing and test-driven development practices for storing user's health metrics and workout information using MongoDB and SQL server database within a Django-based web application

### Scaler Academy

Bengaluru, Karnataka, India

Software Engineer

February 2021 - August 2022

- Led the creation of a Monaco editor-powered code editor using React-Redux (ES6), and TypeScript, resulting in a substantial increase in code submissions to 7 million annually, elevating global coding standards
- Engineered a patent-filed JavaScript-based TimingObject HLS video streaming solution with bandwidth optimization and syncing of videos across connected peers, which boosted user engagement by 50% and reduced instructor load by 2x
- Significantly enhanced platform performance and reliability by optimizing JavaScript and Webpack configurations, reducing dashboard load times from 4.17s to 2.24s, and developing robust APIs and comprehensive tests in Ruby on Rails with SQL integration, adhering to MVC patterns for improved user experience, accessibility, and scalability
- Implemented frontend test suites for React components and stateless functions using Cypress, Mocha, and Jest to ensure unit testing and integration testing with proper documentation

### Remedico

Bengaluru, Karnataka, India

Software Engineering Intern

May 2020 - August 2020

- Implemented 25+ reusable React components, reducing redundant codebase size by 8%
- Modernized Doctor's onboarding portal in React Native comprised of 3 screens with AntDesign design language
- Implemented computer vision functionality in React Native to analyze patient's skin in real-time to recommend remedies
- Contributed to the development of a user-friendly companion dashboard for customers, implementing design patterns and UI best practices using Next.js, Sass, and TypeScript

### DailyKIT

Bengaluru, Karnataka, India

Software Engineering Intern

February 2020 - June 2020

- Restructured client side web pages on React and integrating them with GraphQL and Hasura REST API framework
- Writing frontend test cases in Jest for reusable react components
- Deployed storefronts for meal-kit delivery services across 3 companies in USA

## PROJECTS & OUTSIDE EXPERIENCE

### TWITTER CLONE - Erlang; Elixir; Distributed Computing; Web sockets; JSON

Gainesville, FL, USA

Developer

August 2022 - December 2022

- Built Twitter Clone in Erlang, enabling real-time, multi-threaded interactions via WebSockets in a distributed system

### JIIT COMPANION - React Native; Node.js; Express; MongoDB; Azure

Noida, Uttar Pradesh, India

Developer

August 2019 - January 2020

- Launched JIIT Companion app using React Native/NodeJS with Express/MongoDB with end-to-end deployment on Azure
- Achieved 5,000+ download a rated 4+ stars on Android and iOS stores with 500+ reviews

## SKILLS

**Hard Skills:** Python, C/C++, JavaScript, JAVA, C#, HTML, CSS, React, Django, Node.js, SQL, MongoDB, Git, Docker, Kubernetes, Jenkins, AWS, REST APIs, Angular, CI/CD, Terraform, AJAX, JSON, NoSQL, MySQL, Linux/Unix, UI/UX, Redis  
**Soft Skills:** Leadership and Team Management, Critical Thinking and Problem-Solving, Effective Communication and Presentation, Adaptability and Continuous Learning, Time Management and Organization, Communication Skills