

SUNNY DHAMA

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EDUCATION

UNIVERSITY OF FLORIDA Master of Science in Computer Science, GPA: 3.7/4.0 Relevant Coursework: Distributed Operating Systems; Database Management Systems; Software Engineering; Computer systems	Aug 2022 – May 2024 Gainesville, Florida
JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY Bachelor of Science in Computer Science and Engineering, GPA: 3.54/4.0 Relevant Coursework: Artificial Intelligence; Machine Learning; Data Structures; Database Systems; Algorithms; OOP	Jul 2017 – Jul 2021 Noida, Uttar Pradesh, India

SKILLS

Languages: Python, C/C++, JavaScript, TypeScript, HTML, CSS, Java, Ruby, SQL, PostgreSQL, PHP, Dart, Erlang
Developer Tools: Git, Docker, AWS (EC2, S3, Lambda), Unix, Agile (Scrum), Jenkins, MongoDB, GraphQL, Webpack
Software/Frameworks: Node.js, Express, React (MobX and Redux), Flask, Django, Jira, Figma, Flutter, VueJS, Angular

WORK EXPERIENCE

UNIVERSITY OF FLORIDA Software Engineer ● Developing an AI-powered Health Coach app using React and Django, leveraging machine learning and natural language processing to provide customized workout recommendations and coaching via integration with companion watches and smartphone applications ● Implementing robust data handling with SQL and NoSQL databases to ensure scalability and performance, enhancing user engagement and retention through personalized interactions ● Devised automated testing and continuous integration with Docker and Jenkins, enhancing coding and deployment efficiency	Gainesville, FL May 2024 – Present
Research Assistant ● Developed a full-stack React and Django-based educational platform, significantly impacting over 100 students with scalable architecture for potential national expansion as part of a \$1 million NSF-funded initiative ● Innovated real-time health metric sharing in sports activities using Flutter applications, achieving a 22% reduction in battery consumption for smartwatches and a robust analytics dashboard ● Enhanced platform efficiency within Docker environments and ALB, achieving a 30% reduction in computation needs ● Developed native application on Karoo devices running Android 8 to scrape health metrics and relay information to companion mobile application to gather data for AI powered analytics	Oct 2022 – Apr 2024
SCALER ACADEMY BY INTERVIEWBIT Software Engineer ● 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	Bengaluru, Karnataka, India Feb 2021 – Aug 2022
REMEDICO Software Engineering Intern ● Implemented 25+ reusable React components, reducing redundant codebase size by 8% ● 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	Bengaluru, Karnataka, India May 2020 – Aug 2020

PROJECTS

TWITTER CLONE <i>Erlang, Chord Protocol, Distributed System</i> ● Built Twitter Clone in Erlang, enabling real-time, multi-threaded interactions via WebSockets in a distributed system ● Devised a multi threaded user engagement and testing environment by crafting a JSON API and Erlang client simulator	Dec 2022
DIABETIC RETINOPATHY DETECTION <i>Python, Machine Learning, React Native, Django</i> ● Platform to predict retinal carcinogens from angiographic images with 84.4% accuracy, leading to a published research paper	Mar 2020
JIIT COMPANION <i>React Native, NodeJS, Javascript, MongoDB, Flask, Python</i> ● Launched "JIIT Companion" app using React Native with NodeJS backend and MongoDB, achieving 5K+ downloads and 4+ star rating from 488 reviews on Google Play Store	Jan 2020

COMMUNITY ENGAGEMENT & LEADERSHIP

- Contributed to several open-source projects on GitHub, focusing on enhancing security protocols and creating accessible technology solutions
- Regular participant in workshops and seminars to keep abreast of the latest developments in software engineering