

Rajat Dhanraj Savdekar

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EDUCATION

University of Southern California <i>Masters of Science in Computer Science</i> Courses: Algorithms, Web Technology, Data Science/ML, Advanced Game Design	<i>Los Angeles, California</i> Aug 2024 - May 2026
University of Mumbai <i>Bachelor of Engineering in Computer Engineering</i> Courses: Computer Network, Software Engineering, Algorithms, Data Structures, AR/VR	<i>Mumbai, India</i> Aug 2019 - May 2023 GPA: 9.4/10

TECHNICAL EXPERIENCE

Front End Web Development Intern World Salon - Tech platform and professional network for salon professionals • Developed 8+ responsive React components, improving sign-up conversion by 15%. • Implemented client-side form validation and real-time data handling using Redux and REST APIs. • Collaborated with design and backend teams to integrate booking workflows and profile management.	<i>Los Angeles, California</i> May 2025 – Present
Software Engineering Intern JFSS - Agricultural cooperative digitizing operations and reporting systems • Contributed to 4+ internal software tools supporting procurement and sales workflows used by 150+ members. • Reduced manual reporting efforts by 30% by implementing automated data aggregation modules. • Participated in the full SDLC, including requirement analysis, backend logic development, and testing cycles.	<i>Jalgaon, India</i> Jan 2023 – Oct 2023
Software Engineering Intern Softaid Computers - IT services firm specializing in e-Governance and enterprise software • Delivered “E-Attendance” and “E-Vikas” modules using PHP and MySQL, impacting 100+ daily users. • Completed 100+ hours of hands-on training in web development, Flutter, and IoT. • Accelerated data entry processes by 40% in E-Vikas by streamlining form structures and backend optimization.	<i>Jalgaon, India</i> July 2021 – Dec 2021

PROJECTS

DSA Visualizer Series Personal Project Manim, Python, YouTube • Designed and produced 10 animated videos illustrating core data structures and algorithms using Manim. • Explained common problem-solving patterns including two-pointer, sliding window, and recursion. • Published the series on YouTube to enhance conceptual understanding through visual storytelling.	May 2025 – June 2025
Full Stack Weather Tracker Academic Project Full-Stack Web, Cloud • Developed weather apps in Angular, Node.js, JavaScript, Flask, and SwiftUI; deployed on GCP using REST APIs. • Implemented UI features like autocomplete, location favorites, forecast visualizations, and real-time API. • Explored modular front-end structures and deployment on web and iOS environments for a cross-platform solution.	Aug 2024 – Dec 2024
Unity Games with USC Volunteer Assistance Unity, 3d assest • Developed weather apps in Angular, Node.js, JavaScript, Flask, and SwiftUI; deployed on GCP using REST APIs. • Implemented UI features like autocomplete, location favorites, forecast visualizations, and real-time API. • Explored modular front-end structures and deployment on web and iOS environments for a cross-platform solution.	Jan 2025 – May 2025
Medical Transcript Analysis Capstone Project ML, NLP, (Paper) • Built real-time ML pipeline using TF-IDF and transformer models (92%+ accuracy) to classify medical transcripts. • Integrated Google Speech-to-Text API with Flask backend to support voice input and real-time disease prediction.	Aug 2022 – Aug 2023

Teaching & Outreach Experience

Teaching Assistant Discover Engineering K–12 STEM Outreach, USC Viterbi • Co-led weekly engineering workshops for 60 high school students focused on hands-on learning. • Mentored students in building, testing, and refining STEM projects through guided problem-solving.	May 2025 – July 2025
Teaching Assistant Energy of STEM K–12 STEM Outreach, USC Viterbi • Delivered daily interactive lessons to 100 students on sustainable energy and circuit fundamentals. • Facilitated team-based prototyping activities, assisting with troubleshooting and collaborative thinking.	July 2025 – Aug 2025

SKILLS

Languages: Python, JavaScript, C++, Java Frontend: React, Redux, Angular, Tailwind CSS Dev Tools: Git, GitHub, VS Code, Postman Machine Learning: NumPy, pandas, scikit-learn	Databases: MySQL, MongoDB, PostgreSQL, SQL Backend: Node.js, Flask, Django, REST APIs Cloud/Hosting: Firebase, Vercel, GitHub Pages Other: Manim, Arduino, ESP8266, Zumi Robot
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