

# SMIT SANTOSH SHEWALE

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## EDUCATION

### University of Southern California (USC)

Master of Science in Computer Science

Los Angeles, CA

Aug 2022-Present

*Relevant Coursework: Analysis of Algorithms, Machine Learning for Data Science, Database Systems, Mobile Devices and Game Consoles, Multimedia Systems Design, Information Retrieval*

### University of Mumbai

Bachelor of Engineering in Computer Engineering

India

Aug 2018-Aug 2022

*Relevant Coursework: Data Structures, Object Oriented Programming, Distributed Computing, Artificial Intelligence and Soft Computing, Data Warehouse and Mining, Big Data Analytics, Mobile and Web Development, Cloud Computing Lab*

## SKILLS

**Programming Languages:** Python, C, C#, Java, HTML5, CSS3, JavaScript, SQL

**Frameworks/Libraries:** Flutter, Node.js, React, Bootstrap, Tailwind, Express JS, jQuery, Pandas, NumPy, REST API, Git

**Platforms:** Unity, VS Code, Jupyter, Firebase Firestore, MongoDB, Figma, Adobe Creative Suite, Microsoft Office, WordPress

## EXPERIENCE

### UX Research Assistant – Adaptive Computing Experiences Lab USC

May 2024-July 2024

- Conducted in-depth analysis of software developers' interactions with LLMs like ChatGPT, Claude, and GitHub Copilot, analyzing cognitive biases and behavioral patterns in coding sessions
- Synthesized qualitative data from interviews and recorded coding sessions, delivering actionable insights to improve the usability and effectiveness of LLMs in software development workflows

### Web Designer and Developer – Engineering in Society Program USC

Los Angeles, Jan 2024-May 2024

- Led the design and redevelopment of websites, implementing modern UI/UX principles, ensuring cross-browser compatibility, and integrating custom plugins to enhance user engagement and performance
- Designed compelling media content, including images and videos, ensuring optimal presentation on web platform
- Technologies – WordPress, ReactJS, HTML, CSS, JavaScript*

### Front End Engineer Intern – Tvishtryon Solutions Pvt. Ltd.

India, Oct 2021-Jan 2022

- Designed UI/UX for diverse projects: trading website, clothing retail app/website, and AI expense tracker app using Figma
- Translated tested designs into responsive websites in HTML, CSS, and JavaScript
- Worked with the marketing team to gather user feedback, conduct usability testing, and refine designs iteratively
- Technologies – WordPress, HTML, CSS, JavaScript*

### Software Developer Intern – Study Circle

India, Jan 2020-Apr 2020

- Designed and developed a personalized database system using Python and SQL
- Revamped company websites leveraging Django framework, while integrating APIs to provide dynamic user experiences
- Contributed to the design and delivery of a Student Database Management System for "Smart Consultant Pvt. Ltd"
- Technologies – Django, Python, HTML, CSS*

## PROJECTS

### Dora AI Image Generation App (Demo)

- Deployed a full-stack AI image generation app with DALL-E API to produce standard and advanced, high-quality images
- Designed and created the Front-end utilizing React and Tailwind, while leveraging Express and NodeJS for Back-end(server)
- Utilized MongoDB for efficient NOSQL database management, enabling seamless storage and retrieval of generated images while ensuring scalability and optimal user experience

### Little Timmy's Spooky Mansion Game (Demo)

- Collaborated with a team of 7 game developers to design and develop a 3D stealth game in Unity engine
- Introduced game mechanics and features, such as environmental traps, physics, scripted AI behaviors, and lighting using C#
- Optimized game performance by reducing draw calls, improving rendering techniques

### Rotaract (NGO) And You Mobile Application

- Spearheaded conception and deployment of an event management mobile app to automate the NGO's everyday operations
- Conducted UX research, inquiries, interviews, and tests, among club members to design UI in Figma
- Developed the app using Flutter and Firestore Firebase for light and seamless NOSQL database management
- Designed a centralized data warehouse, providing convenience for data management, tracking, and streamlined report generation for annual audits

### Object Detection (GitHub)

- Developed a Java object detection algorithm utilizing HSV histogram matching to identify and segment objects in images
- Automated image processing for background subtraction and color-based clustering to isolate objects in varied scenes that involved multiple target objects and visualized detected results with annotated bounding boxes and labels

## LEADERSHIP AND INVOLVEMENT

### Creatives Director - Rotaract Club Of Thane North End (Non-profit organization)

India, Jul 2020-Jun 2021

- Nominated for 'Best Creatives Director' Award for 2020
- Directed a design team to curate appealing digital content, develop marketing strategies, and manage social media accounts
- Partnered with "Arana Foundation" to raise funds to support education for children born in low-income families