

Sushaanth Srinivasan

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EDUCATION

University of California San Diego

Master of Science in ECE - Machine Learning and Data Science

San Diego, CA

Sep 2023 - Jun 2025 (Expected)

Sri Sivasubramaniya Nadar College of Engineering (Anna University)

Bachelor of Engineering in Computer Science and Engineering (3.94/4.0)

Chennai, India

Aug 2019 - May 2023

TECHNICAL SKILLS

Areas of Experience: Software Development, Fullstack, Machine Learning, Data Science, App development

Languages: Python, JavaScript, Typescript, Java, C/C++, Postgres/Oracle/MySQL, NoSQL, HTML, CSS

Frameworks and Tools: React/Next, Node, Angular, React Native, Flask, Spark, Docker, Git/Github, Tableau, AWS

Libraries: Pytorch, Tensorflow, Keras, OpenCV, Langchain, Tailwind, Sci-kit Learn, Pandas, Numpy, Seaborn, Matplotlib

Other Skills: UI/UX Design, Graphic Design

EXPERIENCE

BRG Energies

Part-time Software Engineer | Vue, Quasar, LLMs

Oct 2024 - Current

San Diego, CA

- Collaborating with cross-functional teams to design and build a scalable marketplace, aimed at streamlining connections between project developers and clients and reducing overhead
- Developing AI-driven tools to help energy project developers enhance decision-making

Pxie Lab, UC San Diego

Research Assistant under Prof. Pengtao Xie | Pytorch, Tensorflow, Python, LLMs

Sep 2024 - Current

San Diego, CA

- Training and fine-tuning multi-modal LLMs to predict drug interactions and their severity from SMILES representations
- Designed and implemented a web scraping script to crawl the web and efficiently gather comprehensive drug information

Zemplee

Machine Learning Engineer Intern | Flask, Python, React, LLMs, SQL, Vector DB, RAG

Jun 2024 - Sep 2024

San Jose, CA

- Developed a chatbot copilot for caregivers, nurses, and physicians which answers questions about patients
- Collaborated with stakeholders to gather feedback on architecture and feasibility to iteratively refine development
- Designed an intuitive React frontend and a Flask REST backend which uses Retrieval Augmented Generation to process patient data based on user queries
- Achieved a 66.6% reduction in response time along with a reduction in the number of navigation steps by atleast 3 times, significantly enhancing efficiency of healthcare workers

FincorpX

Machine Learning Engineer Intern | Node, React, Azure, Python, Figma

May 2023 - Aug 2023

Chennai, India

- Developed an AI financial document processing tool with a dashboard frontend using OCR and LLMs
- Optimized it to analyze more than 20 documents in 1 minute with 87% accuracy and saving users' time by 75%
- Designed the UI and developed a landing page using React to optimize UX and drive conversions

Generaitiv

Software Developer Intern | Python, Javascript

Apr 2023 - May 2023

USA

- Developed and designed their official web extension for the open-source Automatic1111 Stable Diffusion WebUI, increasing project exposure to the AI community
- Enabled users to directly list their art on the platform as NFTs, thus reducing the number of clicks by 50%

Caterpillar Inc. (Industry level Project)

Software Developer Intern | Angular, Javascript

Jan 2022 - Jul 2022

Chennai, India

- Coordinated with an agile team of three members to refactor UI components in Angular to be customizable and compatible with a drag-and-drop WYSIWYG editor, enabling rapid prototyping and reducing development time by 66.6%

PROJECTS

Orion - A browser extension to search websites (Code) | React, Node, Tailwind, LLMs, Vector DB, RAG

- Developed a Node backend server and a custom crawler using graph traversal algorithms to index subpages and used a vector database to store webpage content, enabling semantic searching and reducing retrieval time by atleast 50%
- Created a WXT side panel frontend accessible with a hotkey, to enable seamless searches across multiple webpages