

Vishal Shenoy

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EDUCATION

University of California, Davis

Davis, CA

B.S. in Computer Science and Mathematics | 3.8 GPA

exp. June 2025

- **Coursework:** Data Structures, Algorithm Design and Analysis, Object-Oriented Programming, Discrete Math
- **Organizations:** Project Manager at **Aggie Sports Analytics** and Software Engineer at **AggieWorks**

EXPERIENCE

Engineering Intern

March 2024 – Present

Conviction

San Francisco, CA

- Building internal tools to automate infrastructure at a venture capital firm serving AI-native companies

Student Researcher

May 2023 – Present

UC Davis HRVIP Lab

Davis, CA

- Leading the development of computer simulations for the *MATRIKS Trinity* project
- *Trinity* is a NASA-funded effort to understand the neuroscience behind astronaut training on Mars

Student Researcher

June 2020 — May 2023

Stanford University — Department of Vascular Surgery

Stanford, CA

- Built *Vascular1*, a virtual reality surgical training tool for ultrasound guided vascular access procedures
- Published an IEEE conference paper on the development of the VR module and results of clinical trials

Student Researcher

June 2021 — Jan 2022

Stanford University — Department of Radiology

Stanford, CA

- Built *CovXR*, a machine learning algorithm for the automated detection of COVID-19 pneumonia in chest X-rays
- Achieved a novel accuracy of 95.5% in disease detection and published an IEEE conference paper on the algorithm

PROJECTS

coverart.lol  | *TypeScript, React, NodeJS, DALL-E*


January 2024

- Developed a generative AI service which allows users to automatically create cover art for Spotify playlists

DropDoc  | *Python, JavaScript, React, LangChain, ChromaDB*

September 2023

- Developed an LLM-driven chatbot that allows users to interact with multiple documents in one session
- Implemented support for multiple file formats, including pdf, txt, and doc files

tldw  | *Python, JavaScript, React, OpenAI GPT-4, Whisper*

August 2023


- Developed an AI-powered video summarization platform utilizing LLMs and a speech recognition model
- Implemented embedded notes, semantic search, and short-form video clipping features


Eleven  | *Python, JavaScript, React, BeautifulSoup, S-BERT*

June 2023

- Developed a low-latency semantic search engine for UC Davis undergraduate courses

PUBLICATIONS

IEEE BIBM Paper  | Vascular1: Development and Evaluation of a Virtual Reality Ultrasound Guided Vascular Access Training Module

IEEE SSCI Paper  | CovXR: Automated Detection of COVID-19 Pneumonia in Chest X-Rays through Machine Learning

AWARDS

Apple Swift Student Challenge Winner · Eagle Scout with Bronze Palm · UC Davis Engineering Dean Honor List (x3)

TECHNICAL SKILLS

Languages: Python, C, C++, C, Java, JavaScript, TypeScript, HTML, CSS, Swift, x86 assembly

Workflows: Web Development, Game Development, VR Development, App Development, Computer Vision, Applied AI

Libraries and Tools: Tensorflow, Keras, Pandas, LangChain, OpenAI API, React, Node, Git, Unity, Xcode