

# Aman Ganapathy

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## EDUCATION

### University of California, Los Angeles (UCLA)

MS in Computer Science

Expected June 2025

Los Angeles, CA

### University of California, Davis (UC Davis)

BS in Computer Science and Engineering

2023

Davis, CA

- M.S. Ghausi Medal, College of Engineering's highest honor
- Outstanding Senior Award from Department of Computer Science

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, SQL, Java, HTML/CSS, C#

**Frameworks:** React, Node.js, Vue, Flask, .NET

**Developer Tools:** Git, Docker, Linux

## EXPERIENCE

### Software Developer

Speech Neuroengineering and Cybernetics Laboratory

08/2021 - 08/2023

Davis, CA

- Built a novel hearing aid with audio isolation based on eye gaze with integrated live captioning in augmented reality
- Designed a beamformer (a selective sound amplification system) with Python to dynamically allow users to choose sound sources to listen to
- Developed a processing pipeline to routinely sample eye gaze input from headset to steer beamformer
- Enhanced multithreading capabilities for beamformer with concurrent real time audio sampling and beamforming ensuring low latency
- Implemented Continuous Integration/Continuous Deployment through automated unit testing and containerizing with Docker to ensure robustness across different architectures
- Initiated and conducted weekly sprints for a team of 4 people in an Agile manner, resulting in consistently timely deliverables to leadership team

### Teaching Assistant

AIBridge

06/2023 - 07/2023

Ithaca, NY

- Served as a Teaching Assistant for a Cornell course sponsored by AI Institute for Food Systems on bridging gap between AI and application domains
- Formulated outlines for lectures and exercises on machine learning with sklearn library in Python, maximizing understanding for attendees new to field
- Lectured on Principal Component Analysis to audience of researchers with satisfaction rates of 100%
- Led Teaching Assistant team to monitor post-lecture feedback and incorporate it into subsequent lectures, resulting in a 20% increase in attendee satisfaction by end of program

### Software Engineering Intern

Telestream

06/2022 - 09/2022

Nevada City, CA

- Developed a web service in C# (in .NET) for accelerated media file transfer at 1.7 Gbps, a 20% increase over existing company services
- Expanded file transfer capabilities with a novel network protocol allowing handling of 50% more concurrent files
- Designed a REST API to handle bandwidth allocation requests using Node.js enabling bandwidth throttling for more efficient network use
- Automated file reception based on user-set rules by building a rule engine reducing overall latency of video editing software by 12%

### Software Engineering Intern

Dipsea Capital

01/2022 - 04/2022

Greenbrae, CA

- Enhanced company models by revamping filters using TensorFlow in Python reducing loss rate by 17%
- Validated several models, compiling statistics on accuracy, precision, and recall to inform future decisions