

VAMSHIKRISHNA RAMASAMY

vamshikrishnaramasamy@gmail.com | vamshikrishnaramasamy.github.io/Resume

EDUCATION

Westview High School (Class of 2028)
10th Grade Student

Expected Graduation: 2028

- Relevant Coursework:** AP Computer Science Principles, AP Computer Science A, AP Calculus AB, AP World History.

SKILLS

Development: Python, Java, SwiftUI, Node.js, HTML/CSS, Flask

Systems: Linux, Docker, Proxmox, Self-Hosting, Raspberry Pi, Ollama, VPS Management

Leadership: Research, Public Speaking, Financial Management, Teaching, Team Leadership

RESEARCH, EXPERIENCE & LEADERSHIP

UC San Diego - Research Experience for High School Students (REHS)
AI/ML on the Edge Research Intern - Dr. Jack Silberman

2026

- Conduct AI/ML-on-the-edge research under Dr. Jack Silberman through UC San Diego's REHS program.
- Investigate machine-learning workflows and deployment constraints for edge systems.

Equality in Forensics
Deputy Director of Technology

Present

- Lead technology initiatives, platform development, and digital infrastructure.

Westview CyberPatriot Team
Treasurer

Present

- Manage team budgeting, expense tracking, and fundraising support for the school's cyber defense competition program.

Westview DECA
Executive Board - Vice President of Finance

2024 - Present

- Lead chapter financial strategy, budgeting, and fundraising initiatives.
- Placed 5th in California in Food Marketing Series at DECA State, qualifying for ICDC.
- Won 2nd Place Overall in Food Marketing Series at DECA District Competition.

Debate & Public Speaking (SDIVSL)
Varsity Parliamentary Debate Captain

2024 - Present

- Lead the Parliamentary Debate team, mentor novice speakers, and organize practices.
- Finished undefeated in Parliamentary Debate at SDIVSL League 2A.
- Placed 6th in National Extemporaneous Speaking and 9th at state qualifiers, advancing to state competition.

San Diego Tamil Palli
Nonprofit Web Developer & Assistant Teacher

2023 - Present

- Designed, built, and deployed the nonprofit's official website to increase community outreach.
- Mentor students while supporting academic and cultural learning.

PROJECTS

Palimpsest - TritonHacks 2026 at UC San Diego

SwiftUI, Node.js, DevOps

- Won **Best Presentation** after building and pitching a social platform in under 48 hours.
- Designed the product to encourage users to go outside and connect with people in person.

Homelab Infrastructure

Proxmox, Linux, Docker, Ollama

- Built and maintain a self-hosted environment across local hardware and external VPS infrastructure.
- Host personal projects, web services, and local LLMs while managing deployment and uptime.

CERTIFICATIONS & AWARDS

- USACO Gold Division:** Advanced competitive programming in algorithms, data structures, graph theory, and dynamic programming.
- Scientific Computing with Python:** FreeCodeCamp certification completed through five applied portfolio projects.
- Presidential Volunteer Service Award - Gold:** Recognized for outstanding community service (2024).