Vivek Kumar

✉ contact@vivtrain.dev   ☎ (555) 555-5555
🌐 http://vivtrain.dev   🔗 vivtrain   ⭘ vivtrain

Education & Accolades

🎓 **UCLA** (University of California – Los Angeles)
- B.S. in Computer Engineering
- Class of 2024
- 3.14 GPA with 252.0 Units

Relevant Coursework

Data Structures & Algorithms • Operating Systems
Programming Languages • Computer Microarchitecture
Systems & Signals • Computer Vision • Feedback Control

Collegiate Honor Societies

Upsilon Pi Epsilon ($\Upsilon\Pi E$)
- President   2021
- Corporate Chair   2019
- Inducted   2018

Eta Kappa Nu (HKN)
- Inducted   2018

Tau Beta Pi ($TB\Pi$)
- Inducted   2018

🎓 Buchanan High School – Clovis, CA
- 4.0 GPA (unweighted) with 11 AP Courses
- Valedictorian, CTO of Robotics Team 1671
- Present-day volunteer work with Team 1671

Technical & Professional Skills

Software
- Proficient with C++, Java, Python
- Novice with JS/TS React, .NET C#
- Comfortable in an IDE or on the terminal

Engineering
- Robotics, Control Systems, Motion Planning
- Electronics (Arduino, Raspberry Pi)
- CAD (SolidWorks, OnShape), 3D Printing

Intrapersonal
- Mediation, Conflict Resolution
- Documentation, Typesetting (e.g. $\LaTeX$)
- Leadership, Team Structure, Delegation

Internships

Motorola Solutions – *Software Engineering Intern*   2021
- Developed internal testing tools (native Windows apps) for security cameras
- Designed a Figure of Metric (FoM) for image focus using classical computer vision techniques

Symantec Corporation – *Security Technology and Response Intern*   2019
- Developed core infrastructure which backs consumer and enterprise security software
- Reduced the size of a daily binary patch file to signature-based Intrusion Detection System software by 98%
- Identified the root cause of a long standing stack corruption bug in function hooking infrastructure
- Created an automation framework that singles out expensive operations and outputs an HTML report

Other Experience

FIRST® Robotics Team 1671 – *Alumni Mentor*   2023 – Present
- Taught high school students to apply programming, math, and physics concepts in the real world
- Guided students in developing leadership, professional, and intrapersonal skills
- Built performant, robust, and safety-critical robots to compete in regional and international tournaments

Personal Website   2024 – 2025
- Designed a landing page for showcasing personal projects and stories
- Built a responsive and aesthetic front end using Next.js (i.e. React with Server Components and Tailwind CSS)
- Hosted at http://www.vivtrain.dev using Vercel with `git`-based CICD

Collect Coffee Bar – *Barista*   2023, 2024
- Made high quality espresso and tea drinks at an independent third-wave coffee shop near CSU Fresno
- Gained confidence and made local connections by providing customer service to regulars and newbies alike

Personal Sabbatical   2022 – 2023

Upsilon Pi Epsilon ($\Upsilon\Pi E$) Beta Chapter – *President*   2021 – 2022
- Led UCLA's chapter of UPE, a compuer science honor society endorsed by IEEE and the ACM
- Organized ~40 officers to host career fairs, daily free tutoring, and frequent professional events
- Personally co-hosted a town hall for presenting feedback from the student body to CS Department faculty

COVID-19 3D Printed PPE Project – *Production and Disinfection*   2020
- Organized civilian engineers to mass-produce face shields and masks during PPE supply shortages
- Created a pipeline for production, disinfection, and distribution
- Delivered over 2000 units to local hospitals and elder-care facilites over the course of 6–8 weeks