

# Elliot Fayman

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## EDUCATION

### California State University - Northridge

Northridge, CA

*B.S in Computer Science*

*Expected May 2025*

GPA: 4.0 | Coursework: Adv. Data Structures, Comp. Arch. & Assembly Lang, Linear Algebra, Physics II

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## EXPERIENCE

### Student Affairs IT

Northridge, CA

*Web Developer*

*June 2022 – Present*

- Design, develop & maintain RoR applications with MYSQL databases accessed by thousands of students & staff
- Refactor CSUN's disability resources and education center application in order to make it more user friendly
- Participate in daily standup meetings as part of a scrum team working in an agile web development environment
- Work in a test-driven environment using RSPEC making design decisions based on previously generated tests

### The University Corporation

Northridge, CA

*Instructional Student Assistant*

*January 2022 – May 2022*

- Tutored 40+ college students taking a biology-based calculus course as they completed classwork & homework
  - Participated in professional development meetings sharing empirical and observational student performance data
  - Carefully and accurately graded student classwork giving additional feedback/suggestions to students
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## ACTIVITIES

### Matador Student Design

Northridge, CA

*Project Manager*

*August 2021 – Present*

- Secured \$1.5k in funding from NASA Minds to fund a debris collecting electro adhesion cube satellite
- Created and tuned a C language-based reaction wheel PID controller to adjust the orientation of the cube satellite
- Implemented an Arduino C based software end low pass filter for a 6-axis IMU to attenuate high frequency noise
- Project Manager for 2022-2023 season; youngest project manager in Matador Student Design history

### Formula SAE

Los Angeles, CA

*Controls Intern*

*August 2021 – July 2022*

- Designed and assembled an adjustable driving seat, steering wheel, and pedal jig to make ergonomic adjustments
- Implemented data collection and processing software for a racing simulation rig to help quantify driver skill

### Tulsa Elementary School After School Robotics

Los Angeles, CA

*Robotics Coach*

*August 2018 – January 2020*

- Employed Lego Mind storm robotics kits in order to introduce elementary school students to STEM and Robotics
- Created robotics curriculums to teach in weekly hour long after school robotics meetings with 30+ participants

### GHCHS Robotics Team

Los Angeles, CA

*Subsystem Lead*

*August 2017 – June 2021*

- Oversaw the designing, CAD, fabrication, and programming for a flywheel subsystem over a 6-week period
- Managed a diverse group of high school students that was composed of electrical, mechanical, and software teams
- Helped devise and implement a robust C++ control system for a high-speed flywheel that shoots game objects
- Implemented computer vision software for tracking reflective targets to autonomously adjust shooting mechanism

### GHCHS Robotics Outreach

Los Angeles, CA

*Outreach Executive*

*August 2019 – June 2021*

- Created and fostered 5 after school robotics programs at elementary and middle schools within the community
  - Managed over 35 high school students ensuring they had proper transportation, training, and teaching materials
  - Introduced and taught robotics and block-based programming to 200+ elementary and middle school students
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## SKILLS

**Languages:** Java, Ruby, Python, HTML, CSS, JavaScript, C, MIPS Assembly

**Interests:** Climbing, Theme Parks, Snowboarding, Cold War History, Farming, Hiking