

David Sachmanyman

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EDUCATION

- Rose-Hulman Institute of Technology** Terre Haute, IN
Bachelor of Science in Computer Science, Minor in Mathematics and Artificial Intelligence Aug. 2025 – May 2029
- **Relevant coursework:** Data Structures and Algorithms, Object Oriented Programming, Systems Programming, Multi-variable Calculus, Proofs, Differential Equations, Operating Systems, Web Programming.
- Carnegie Mellon University** Pittsburgh, PA
Pre-College Student Jun. 2024 – Aug. 2024
- **Relevant coursework:** Fundamentals of Programming, Linear Algebra.
- La Salle College Preparatory** Pasadena, CA
High School Diploma Aug. 2021 – May 2025

EXPERIENCE

- Kratos Defense & Security Solutions** Jun. 2026 – Sept. 2026
Software Engineer Intern Colorado Springs, CO
- This will be filled out when I complete the internship.
- Galactic Contention** Jan. 2025 – Present
Backend Developer Remote
- Develop backend systems and tools supporting thousands of daily players for a *Star Wars* mod with 600,000+ unique visitors. Expand administrative infrastructure with logging, analytics, and internal tools.
- CARLOW Center for Medical Innovation** Sept. 2022 – May 2025
Lead Software Developer & Researcher Pasadena, CA
- Developed software for automation and data analysis. Researched and engineered an affordable robotic hand prosthesis integrating brain-control interface technology. Achieved 80% accuracy in signal recognition with <300ms latency.

PROJECTS

- Robotics Attendance System** Feb. 2025 – May 2025
- Built an RFID-based attendance system using Raspberry Pi, Flask, and MongoDB for student clock-in/out tracking and administrative record management.
 - Deployed as the official attendance system via a kiosk running Ubuntu.
- Remote Access Locking System** Mar. 2025 – May 2025
- Directed a team to design and machine a remote locking mechanism via linear actuator.
 - Engineered backend web server with Raspberry Pi, Flask, and MongoDB, containerized in Docker.
 - Built iOS app with SwiftUI to remotely access mechanism via HTTP with industry-standard security.
- Image-based Integrated Development Environment (IDE)** Jul. 2024 – Aug. 2024
- Developed an IDE from scratch with custom text selection, project manager, and real-time syntax highlighting using a custom tokenizer and abstract syntax tree.

ACTIVITIES

- FIRST Robotics, First Tech Challenge**, Captain & Software Lead Aug. 2023 – May 2025
- Led autonomous system development and robot programming while founding the team and establishing infrastructure.
- Mu Alpha Theta**, Tutor Sept. 2023 – May 2025
- Tutored students across all levels of mathematics through the mathematics honors society.

TECHNICAL SKILLS

Programming languages: Python, Java, C/C++, ARM Assembly, Swift, JavaScript, HTML/CSS
Libraries, frameworks & databases: Flask, NumPy, SciPy, OpenCV, MongoDB, SQL
Tools & platforms: Docker, Kubernetes, Bazel, Git, Gunicorn, Jupyter Notebook
Embedded systems: Raspberry Pi, Arduino, ESP32