Daniel J. Hagenlocker

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EDUCATION

Stanford University — **Palo Alto, CA**
B.S. in Electrical Engineering / Computer Science | GPA: 4.0/4.0 — *Exp. Spring 2028*

- Coursework: Computer Organization and Systems, Programming Abstractions, Probabilistic Systems Analysis, Differential Equations, Multivariable Calculus, Linear Algebra and Matrix Theory

Gulliver Preparatory — **Miami, FL**
Merit Scholarship Recipient | GPA 5.96/6.0 — *May 2024*

- Cum Laude (top 5% of class), SAT (Math: 800 | R&W: 770), Computer Science Honor Society (President), Silver Knight Nominee (Science), MIT Book Award, College Board Hispanic Recognition, AP Scholar w/ Distinction

EXPERIENCE

Amazon Internship — **Seattle, WA**
Software Development Engineer — *Jun 2025 - Present*

Y Combinator — **San Francisco, CA**
Summer Fellows Grant Recipient — *Jun 2025 - Present*

ARMLab (Assistive Robotics and Manipulation Lab) — **Stanford, CA**
Research Assistant — *Dec 2024 – Present*

- Developing a mixed-reality interface for teleoperation of robotic arms, enabling intuitive control and faster data collection for imitation learning applications
- Implementing computer vision algorithms to track and map user hand gestures to robot arm movements in real time

NASA Internship — **Austin, TX**
ML Researcher — *Jun 2022 – Aug 2022*

- Designed ML models with the long short-term memory RNN architecture in TensorFlow predicting water loss over time in critical California reservoirs, enhanced predictive accuracy by ~75% compared to alternative methods
- Programmed Python scripts to automate the scraping, parsing, and processing of 5 TBs of geospatial data from ICESat-2 and LandSat-8 satellites, reducing manual data collection time by 90%
- Presented research at American Geophysical Union Fall Meeting 2022 and NASA research symposium

FIRST Robotics — **Miami, FL**
President / Alumni Mentor (Team 5557) — *Jan 2022 – Present*

- Led Java software development team of 10 students implementing computer vision-based real-time localization, sensor fusion via Kalman filters, dynamic path finding and following, and holonomic drivetrain optimization
- Oversaw mechanical and electrical design teams of 30 students, reducing critical system failures by 93%

PROJECTS

RecycleRight / HomeGrown (iOS Apps)
Co-Founder — *Jan 2022 – May 2024*

- Developed iOS apps for biogas digestion monitoring and waste contamination prevention, building interactive Augmented Reality experiences and training custom image classification models to identify recyclable materials
- Recognized at International entrepreneurship competitions for climate impact (Paradigm & Conrad Challenge)

Inside the Box (Patented Sustainable Packaging Startup)
Co-Founder — *Dec 2020 – Aug 2021*

- Utility Patented packaging alternative for consumer electronics sourced entirely from the agricultural waste stream
- Awards/Recognition: Utility Patent (US 20220324625), Dell Technologies Conrad Challenge - Winner, Blue Ocean Entrepreneurship Competition - 2nd Place

SKILLS

Programming Languages: Java, Python, TypeScript, HTML, CSS, Julia, SQL, Arduino, C/C++, Assembly
Technologies: TensorFlow, ReactJS, Tailwind CSS, Flux, Github, Netlify, Firebase, Figma, Vite, Onshape, RISC-V
Interests: Frontend Web Dev, Robotics, Computer Vision, Machine Learning, Environment, Data Science