

# HENOK DAWITE

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## EDUCATION

**Pomona College**, Claremont, California

*EXPECTED May 2027*

Bachelor of Arts: Computer Science and Mathematics,

GPA: 3.8

**Relevant Coursework:** Discrete Math & Functional Programming, Data Structures and Advanced Programming, Algorithms, Machine Learning, Computer Systems, Linear Algebra, Combinatorial Mathematics, Principles of Real Analysis, Data Science in R

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, HTML/CSS, JavaScript, Haskell, SQL, C, R, Go

**Frameworks/Libraries:** React.js, Flask, Node.js, Streamlit, scikit-learn, NumPy, Pandas, Matplotlib

**Technical/Software:** Git, Github, Jupyter Notebook

## WORK EXPERIENCE

**Claremont Computer Network LLC**, Remote

*July 2025 - Present*

*Backend/Platform Engineering Intern*

- Developing a Go tool integrated with the Cloudflare API to automate DNS record updates for client domains, reducing manual configuration steps
- Designing a REST API with GET/POST endpoints and CLI interface, enabling faster testing and deployment of DNS changes with health checks and structured logs
- Outlining an internal IP address management (IPAM) system covering multiple subnets to streamline allocations and reduce risk of misconfiguration

**Associated Students of Pomona**, Pomona College

*January 2024 – March 2025*

*Office Assistant*

- Managed daily operations and provided administrative support, including handling financial transactions for 250+ student organizations, processing event registrations, and maintaining office records
- Communicated with 80+ students to address inquiries and improved access to campus services, such as lost and found, event coordination, and discount ticket programs

## TECHNICAL PROJECTS

**P-ickup** | React.js, Flask, Python, scikit-learn, Supabase

- Designed and implemented k-nearest neighbors (KNN) and K-means models to optimize rideshare matching using real-time Uber, Lyft, and aviationstack API data, serving over 6,000 students across the Claremont Colleges
- Integrated AI models into a React.js and Flask-based platform, improving prediction accuracy by 30%
- Refined machine learning algorithms through iterative testing, user feedback, and continuous model tuning for better performance

**Pomona Laundry Machine System** | React.js, HTML/CSS, Jinja2

- Developed the front end of a Flask web app to provide real-time status updates on campus laundry machines, improving access for over 1,600 students
- Integrated RESTful APIs for real-time machine status updates and improved data flow between the front and back end
- Enhanced user experience by providing an intuitive interface with clear machine availability indicators, minimizing wait times and optimizing machine usage by 20%

## LEADERSHIP & INVOLVEMENT

**Management Leadership for Tomorrow**

*March 2025 – Present*

*Career Prep Fellow*

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders such as Amazon, LinkedIn, and Adobe

**Black & Brown in Computer Science (BBICS)**, Claremont Colleges

*April 2025 – Present*

*Coordinator (Paid)*

- Coordinate DEI events, workshops, and mentorship to support 50 + Black and Brown CS students
- Collaborate with 30+ faculty, staff, and external partners to advocate for inclusive curriculum changes and increase representation in computer science-related opportunities and spaces

## INTERESTS

Software Engineering, Entrepreneurship, Data Visualization, Artificial Intelligence