

# Miguel Aenlle

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Bachelor of Science in Computer Science*

Expected: May 2027

*Cumulative GPA: 4.0/4.0*

- Honors: Provost Scholar (Full-Tuition Scholarship), Engineering Visionary Scholarship, GFX Innovation Scholar
- Relevant Coursework: Data Structures and Algorithms, Database Systems, Artificial Intelligence, C++, Java, Computer Architecture, Numerical Methods, Discrete Structures, Linear Algebra, Probability and Statistics

## PROFESSIONAL EXPERIENCE

### Software Engineering Intern, PrairieLearn, Inc.

Dec. 2024 – Present

- Created image-capture feature delivering **1ms** captures for **180,000** students in high-stakes exams & assessments
- Refreshed PrairieLearn staff interface design across 80+ pages, enhancing experience for **2,000+** instructors
- Automated week-long grading process into **1-hour batch job** by creating AI-based handwriting grading pipeline
- Developed UIs and API endpoints with TypeScript, React, HTML, CSS, PostgreSQL, WebSockets, and Python

### Software Developer, Google Summer of Code

Jun. 2025 – Present

- Engineered ML pipeline to train and optimize automated MRI segmentation models with OpenCV and PyTorch
- Expanded limited proprietary training data by **2,000%** via custom-trained, state-of-the-art generative AI models
- Improved segmentation accuracy from **70%** to **85%**. Collaborated with Google and Emory University researchers

### Software Developer, Normandy Remodeling

Aug. 2022 – Jan. 2025

- Architected web platform managing vital logistical and financial data on **33,000+** customers and **9,900+** projects
- Built frontend with React, CSS, and TypeScript, and backend with Node.js, Express, MongoDB, Jest, and Azure
- Created invoicing system handling 300+ invoices/wk via web dashboard, file generators, and email automations

### Software Engineering Intern, PATHWAYos

Jun. 2023 – Aug. 2023

- Created work-based learning experience matching system for **500,000**-student platform with React & TypeScript
- Developed frontend & API endpoints for opportunity matching via preferences, location, experience, & availability
- Iterated features based on feedback and peer reviews from engineering and product teams with GitHub and Slack

## LEADERSHIP AND ACTIVITIES

### Software Developer - Web Team, Reflections Projections

Mar. 2025 – Present

- Developed interactive schedule and Q&A pages for the Midwest's largest collegiate tech conference
- Revamped sponsor resumebook in React/TypeScript, streamlining search, filter, and preview of **2,000+** resumes

### Software Developer - Web Team, HackIllinois

Sep. 2024 – Mar. 2025

- Created site and registration system used by **600+** students and attendees with React, TypeScript, and NextJS
- Leveraged Notion, Figma, and GitHub to develop features collaboratively with developers and designers

### Founder and Lead Organizer, HSHacks

Dec. 2022 – May 2024

- Led fundraising, web/system development, marketing, and logistics of HSHacks 2023 & 2024 hackathons
- Hosted **120+** student attendees from **40+** Chicago-area schools in 2024. Featured on local news
- Directed 8-student team in acquiring **\$45,000** in funds and software/technology prizes from **17** corporate sponsors

### Founder and Director, Hersey Developers

Dec. 2022 – May 2024

- Partnered with Township HS District 214 (D214) to launch **academically-accredited** CS internship program.
- Directed **30** interns with 3 other team-leads through React/Node.js coursework and creation of 4 websites for D214
- Led sprint planning and stand-ups meetings; supported team via GitHub reviews and pair programming sessions.

### Founder and Director, JHHS Hack Club

Sep. 2022 – May 2024

- Founded, organized, and led **50+** member CS club, the largest student-led organization at John Hersey HS.
- Hosted weekly computer science workshops on web development, AI, VR, and game development.

## TECHNICAL SKILLS

**Full-Stack:** React, NextJS, NodeJS, Express, MongoDB, MySQL, PostgreSQL, Redis, Django, REST APIs, WebSockets

**Languages:** TypeScript, JavaScript, Python, SQL, Swift, Java, C++, HTML, CSS, Dart, MIPS, Verilog

**Data Science / AI:** Python, PyTorch, OpenCV, NumPy, Pandas, Matplotlib, OpenAI, spaCy NLP, NLTK, Scikit-learn

**Other:** Git, GitHub, CI/CD, GitHub Actions, Jest, Agile, Linux, SwiftUI, Flutter, Firebase, Azure, Google Cloud