

# Miguel Aenlle

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## EDUCATION

### University of Illinois, Urbana-Champaign

*Bachelor of Science in Computer Science*

- Relevant Coursework: C++, Java, Rust, OOP, Discrete Math, Calculus 3, Differential Equations, Statistics

Expected: May 2027

*Cumulative GPA: 4.0/4.0*

## EXPERIENCE

### Software Engineering Intern

*PrairieLearn*

- Streamlining onboarding for 750+ university courses, enhancing user understanding of core platform components
- Developing features with TypeScript, Express, Python, and PostgreSQL, and collaborating via GitHub and Slack

Dec. 2024 – Present

*Champaign, IL (Remote)*

### Software Engineering Intern

*PathwayOS*

- Built experience matching system for 500,000-student platform using React, CSS, TypeScript, Swift, and MySQL
- Iterated features based on feedback and peer reviews from engineering and product teams with GitHub and Slack

Jun. 2023 – Aug. 2023

*Denver, CO (Remote)*

### Software Engineer

*Normandy Remodeling*

- Developed custom platform managing logistical and financial data on 33,000+ customers and 9,000+ projects
- Programmed invoicing system handling 300+ invoices/week via dashboard, file generators, and email automations
- Leveraged React, CSS, Node.js, Express, and MongoDB; integrated with MS Office via Azure and MS Graph API

Aug. 2022 – Present

*Hinsdale, IL (Remote)*

## RESEARCH

### Undergraduate Computer Vision Researcher

*Health Care Engineering Systems Center*

- Creating novel diffusion-based computer vision model to redirect an image subject's eye gaze and head orientation
- Fine-tuned large vision model on an 80,000-sample image/gaze dataset using PyTorch, OpenCV, and Pandas

Oct. 2024 – Present

*Urbana, IL*

### Undergraduate Researcher

*URSA (Undergraduate Research for Scientific Advancement)*

- Built iOS app that transforms videos based on user prompts with SwiftUI and RAVE Computer Vision Model
- Engineered AI video processing backend using Python, PyTorch, Flask, Google Cloud, and NVIDIA GPUs

Sep. 2024 – Dec. 2024

*Urbana, IL*

## LEADERSHIP AND ACTIVITIES

### Web Developer

*HackIllinois*

- Developing HackIllinois 2025 Event Website for use by 1,000+ students with React, SCSS, and TypeScript
- Utilizing Notion, GitHub, and CloudFlare CI/CD to develop features collaboratively with developers and designers

Sep. 2024 – Present

*Urbana, IL*

### Founder and Lead Organizer

*HSHacks*

- Led fundraising, marketing, programming, and logistical organization of HSHacks 2023 and 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

Dec. 2022 – May 2024

*Arlington Heights, IL*

### Founder and Director

*Hersey Developers*

- Partnered with HS District 214 (D214) to launch academically-accredited Computer Science internship program
- Directed 30 interns with 3 team-leads through React, Node.js, and MongoDB courses and creation of 4 websites
- Led Agile team sprint planning, stand-up meetings, code reviews and pair programming sessions

Dec. 2022 – May 2024

*Arlington Heights, IL*

## TECHNICAL SKILLS

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

**Technologies/Frameworks:** React.js, Node.js, Express, MongoDB, MySQL, Azure, GCP, SwiftUI, Flutter, Git, GitHub, CI/CD, Jest, Supertest, Agile, PyTorch, OpenCV, Numpy, Pandas, Matplotlib, OpenAI, spaCy NLP, NLTK