

# Miguel Aenlle

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## EDUCATION

### University of Illinois, Urbana-Champaign

*Bachelor of Science in Computer Science*

Expected: May 2027

*Cumulative GPA: 4.0/4.0*

- Relevant Coursework: C++, Java, Rust, OOP, Discrete Math, Calculus 3, Differential Equations, Statistics
- Honors: James Scholar, Provost Scholar (Full-Tuition Merit Scholarship)

## EXPERIENCE

### Undergraduate Computer Vision/Generative AI Researcher

Oct. 2024 – Present

*Health Care Engineering Systems Center*

*Urbana, IL*

- Creating diffusion-based computer vision model to redirect an image subject's gaze and posture to a new location
- Engineered 80,000-sample image and gaze location dataset using Python, PyTorch, NumPy, and Pandas

### AI Engineer

Sep. 2024 – Present

*URSA (Undergraduate Research for Scientific Advancement)*

*Urbana, IL*

- 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

### Web Developer

Sep. 2024 – Present

*HackIllinois*

*Urbana, IL*

- 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

### Software Engineer

Aug. 2022 - Present

*Normandy Remodeling*

*Hinsdale, IL (Remote)*

- 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

### Software Engineering Intern

Jun. 2023 - Aug. 2023

*PathwayOS*

*Denver, CO (Remote)*

- 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

## LEADERSHIP

### Founder and Lead Organizer

Dec. 2022 - May 2024

*HSHacks*

*Arlington Heights, IL*

- 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

### Founder and Director

Dec. 2022 - May 2024

*Hersey Developers*

*Arlington Heights, IL*

- 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, & MongoDB courses and creation of 4 websites
- Led Agile team sprint planning, stand-up meetings, code reviews and pair programming sessions

## PROJECTS

### PlatformsAI | React, TypeScript, Express, MongoDB, Azure, Python, spaCy, OpenAI

Jun. 2024 – Sep. 2024

- Developed PlatformsAI to convert business spreadsheets into web-based data management platforms in minutes
- Engineered AI system that can clean 1.7 million data cells per minute and auto-configure data dashboards
- Implemented drag-and-drop dashboard builder, customizable search, & permission system with the MERN stack

## 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, Jupyter, Numpy, Pandas, Matplotlib, OpenAI, spaCy NLP, NLTK