

Ethan McKissic

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EDUCATION

University of Central Florida
Bachelor of Science in Computer Science

Orlando, FL
Aug. 2023 – May 2027

EXPERIENCE

Software Engineer Intern

May 2025 – Aug. 2025

Microsoft - Xbox

Redmond, WA

- Contributed to the **xCloud Services** team within Xbox, which powers Xbox's cloud gaming platform.
- Authored a **20+ page design document** outlining project vision, API specifications, cloud infrastructure, testing strategies, and success metrics; presented to engineers, PMs, and stakeholders, receiving strong team feedback.
- Provisioned secure **cloud infrastructure with Terraform**, creating role-based access, storage accounts, and blob containers to manage large image uploads at scale.
- Implemented storage managers in **C#** to handle file uploads & deletions into Azure Blob Storage with a **99%** success rate across all tests, applying industry-standard design patterns and iterative mentor feedback.
- Developed **REST APIs** and metadata repositories in **ASP.NET** and **Azure CosmosDB** with **authentication** and **rate limiting** to ensure secure and reliable file handling.
- Designed and implemented a **frontend dashboard** for our service on xCloud's internal platform with **Figma** and **Blazor**, enabling **50+** developers to manage image uploads and deletions.

PROJECTS

N.O.V.A AI | *Python, Flask, Matplotlib, OpenCV, TypeScript, React, Tailwind*

Apr. 2025

- 1st place winner** out of **35** projects for the **Best Design** at HackUSF 2025.
- Spearheaded the frontend development and design using **React** and **Tailwind**, creating an engaging and intuitive user experience.
- Implemented facial tracking with **OpenCV** and created **Matplotlib** visualizations to reveal patterns in user attention and focus.
- Integrated **Flask APIs** with the React frontend to deliver a fully functional prototype under a **24-hour** deadline.

DressMeUp | *TypeScript, React, Tailwind, Node.js, Express.js, MongoDB, Flutter*

Mar. 2025 – Apr. 2025

- Designed and developed key frontend features by creating **Figma** wireframes and reusable **React** components, delivering a cohesive and responsive interface.
- Integrated and tested **authentication APIs** for login/signup with Postman, while debugging closet APIs to ensure reliable item retrieval and display.
- Optimized image upload performance by applying **compression** techniques that reduced load times by **95%**, significantly improving application responsiveness.

Binary Fallout | *React, Tailwind, Framer Motion, Flask, MongoDB, Google Gemini*

Feb. 2025 – Apr. 2025

- Directed and shipped the React and Tailwind frontend with **Framer Motion** for immersive gamified exam prep.
- Implemented Flask APIs for user authentication and dynamic quiz generation powered by **Google Gemini**.
- Integrated **MongoDB** to track player progress and session data, enabling persistent gameplay and user feedback.

INVOLVEMENT

KnightHacks

Sept. 2023 – Present

Member

Orlando, FL

- Led teams to **win 2 hackathons** while participating in workshops to strengthen technical and collaborative skills.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML/CSS, C#, C, Python, Java, SQL, Bash

Frameworks/Libraries: React, Node.js, Express.js, ASP.NET, Blazor, Flask, Matplotlib, TailwindCSS, Bootstrap

Tools/Platforms: Git, GitHub, Figma, Vite, MongoDB, MySQL, CosmosDB, Docker, Kubernetes, Terraform, Linux, Microsoft Azure, Postman, Jira

Concepts: Full-Stack Development, UX/UI Design, Cloud Computing, RESTful APIs, Object-Oriented Programming (OOP), Data Structures & Algorithms, Secure Software Design, Agile/Scrum