

# William O'Connell

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## Experience

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**Software Engineer II, UMD CATT Lab - College Park, MD** **2023-2025**

- Developed data visualization tools in Python and JavaScript
- Built a pipeline to collect, analyze, and display live robotics telemetry data with Postgres, FastAPI, and React
- Deployed performance tracing tools and used the findings to reduce server response time by 800ms, saving hours of our users' time each month

**Technology Intern (Paid), Capital One - McLean, VA** **Summer 2022**

- Built UI components in Angular to streamline a key internal process
- Performed security testing and analysis on vendor software to evaluate the impact of proposed changes

**Technology Intern (Paid), Fidelity Investments - Remote** **Summer 2021**

- Added features and fixed bugs for Fidelity's ESG Pro portfolio research product
- Built UI components with TypeScript, React, and Redux

**Software Developer, Hexagram - Remote (part time)** **2019-2022**

- Designed/built new visual programming system with NodeJS and Web Components. Used this tooling to deliver several client projects
- Worked on chatbot systems, programmatic video compositing, location-based gaming, etc., including technology for a mentalism show performed on live TV

## Education

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**B.S. in Computer Science, Miami University - Oxford, OH** **2019-2023**

- Minor in Emerging Technology in Business and Design

## Skills

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- Full stack web development
  - Proficient in JavaScript/TypeScript and Python (also used Java, PHP)
  - Experience with multiple frontend frameworks (React, Angular, Svelte)
- Hosting/deployment
  - Experience building on AWS (S3, DynamoDB, Lambda, CloudFront, etc.)
  - Knowledge of DevOps tooling like Docker, Ansible, and Terraform
- Game development
  - Developer of web and mobile games, including Subtext (subtextgame.com), an interactive mystery story that immerses thousands of players with automated SMS messages, emails, and phone calls
- Close-up magic
  - Creator of apps (Unlisted, Artifact) used by hundreds of magicians around the world