

William O'Connell

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Experience

Software Engineer II, UMD CATT Lab - College Park, MD **2023-2024**

- 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

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

- Minor in Emerging Technology in Business and Design

Skills

- 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 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
- Amateur magician
 - Creator of apps (Unlisted, Artifact) used by hundreds of magicians around the world