

# Spencer Richardson

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## Software Engineer

Full Stack Software Engineer with experience in building end-to-end features, from backend services and APIs to polished user interfaces. Skilled in applying engineering best practices and agile methodologies to deliver scalable and maintainable solutions, enhancing system performance and user experience. Successfully collaborated with cross-functional teams to drive innovation and improve front-end responsiveness.

## EXPERIENCE

### American Association for the Advancement of Science, Washington DC — *Full-stack Engineer*

OCT 2017 - MAR 2025

- Collaborated with cross-functional teams, including product and design, to brainstorm ideas, debug issues, and review code, which enhanced team collaboration and improved front-end responsiveness.
- Applied engineering best practices and agile methodologies to deliver scalable and maintainable front-end solutions, elevating system performance and user experience.
- Built end-to-end features, from backend services and APIs to polished, user-facing interfaces.
- Evaluated technical solutions against customer requirements to ensure alignment with project goals and enhance the overall delivery of front-end applications.
- Documented software development methodologies in technical manuals for IT personnel, supporting future agile development and continuous improvement.
- Modified and upgraded code using Symfony and Node.js to improve system performance, while leveraging modern JavaScript frameworks to bolster interactive web interfaces.

## EDUCATION

### University of Maryland - Baltimore County, Baltimore Maryland — *Bachelor's of Science in Information Systems*

SEP 2012 - MAY 2016

Coursework: Advanced Programming Proficiency, Applied Psychology in Tech

## SKILLS

Python, Javascript, Typescript, PHP, C++

HTML/CSS, React, Angular, Bootstrap, JQuery, Drupal, Wordpress, Squarespace

Symfony, Node.js, Express.js, MySQL, MongoDB, Redis, Airflow, Beanstalk

GIT, New Relic

RESTful APIs, CI/CD front-end pipelines

## Interests

### Generative AI & Machine Learning:

Exploring Transformer models via Hugging Face—building small-scale projects like text generators and data visualizations. Using AI tools to prototype full scale web apps quickly.

### Tabletop RPG Organizer:

Organized and ran weekly 5-player RPG sessions for 3+ years, demonstrating leadership, schedule coordination, creative storytelling, and group facilitation.