

Jonathan Marshall

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[Linked In](#) | [Github](#) | [Portfolio](#) | [Technical Blogs](#)

SOFTWARE DEVELOPER

Software Developer experienced in building full-stack web applications using Python, JavaScript, SQL, Flask, and React. I enjoy the process of breaking down complex problems and building practical solutions, whether it's optimizing a database query, designing an intuitive user interface, or improving API efficiency. Strong foundational knowledge in REST API development, object-oriented programming, and database design with PostgreSQL. Experienced in Agile methodologies and integrating security best practices, including JWT authentication and secure cookie handling. Committed to continuous learning, collaborating within teams, and delivering efficient, secure, and scalable software solutions.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, Bash, HTML, CSS

Frameworks and Libraries: Flask, React, Redux, Vite, Node.js, SQLAlchemy

Tools and Platforms: Git, GitHub, Bcrypt, Pytest, Postman, Visual Studio Code

Operating Systems: Linux

Cloud & DevOps: AWS S3 (Secure File Storage), Render (Deployment), CI/CD Pipelines

Databases: PostgreSQL

Security & Authentication: JWT Authentication, OAuth, HTTP-Only Cookies, SAST/DAST, Input Validation

Development Practices: Object-Oriented Programming (OOP), REST API Development, CI/CD, CRUD, Unit Testing, Agile Methodology

TECHNICAL PROJECTS

Fantasy Football Research Hub - [Github](#) | [Demo](#) | [Live Site](#)

(Guest Credentials: **user@user.com** / **password**)

- Engineered a full-stack application with a React + Vite (frontend), Flask (backend), and PostgreSQL (database)
- Implemented AWS S3 for secure image storage, using pre-signed URLs for optimized retrieval and scalability
- Designed and implemented a secure RESTful API with JWT authentication and HTTP only cookies, integrating React, Redux, and Flask for seamless data flow
- Developed a scalable relational database with PostgreSQL using SQLAlchemy ORM
- Debugged and tested the full stack using Postman, Pytest, DevTools, and SQLAlchemy logs to ensure reliability

Event Manager [Github](#) | [Demo](#) | [Live Site](#)

- Developed a full-stack application using Python, JavaScript, and SQL
- Deployed the application on Render with seamless CI/CD pipelines, debugging cross-origin issues and configuring environment variables for a scalable, production-ready system
- Streamlined SQL queries and optimized many-to-many relationships with SQLAlchemy for efficient data handling

EXPERIENCE

The Merrick Group, West Hazleton, PA

February 2020 - April 2024

Nuclear Eddy Current Project Manager

- Led nuclear eddy current projects, analyzing complex data to enhance reactor safety. Implemented innovative inspection techniques, resulting in improved accuracy.
- Managed multiple nuclear projects simultaneously, consistently meeting deadlines and quality standards.
- Coordinated cross-functional teams of 40+ engineers and technicians. Fostered open communication, leading to seamless project execution and knowledge sharing.

BWXT, Lynchburg, VA

September 2012 - January 2020

Nuclear Technician

- **Inspection Operations:** Performed eddy current inspections on a variety of nuclear plant equipment, including heat exchangers, steam generators, and reactor components, to detect surface and subsurface defects.
- **Technical Reporting:** Documented and reported inspection results, created detailed analysis reports, and communicated findings to engineering teams to support decision-making and maintenance planning.

EDUCATION

Flatiron School (remote)

April 2024 - September 2024

Full-stack Web Development, JavaScript and Python Program

Virginia Wesleyan, Norfolk, VA

September 2011 - June 2012

Completed foundational courses in Computer Science before pursuing a professional opportunity in the nuclear industry.