# Jonathan Wallace

mrjonathanwallace@gmail.com | (469)-971-8499 | https://www.linkedin.com/in/jonathan-wallace-544493245 | GitHub: https://github.com/wallacej674

## EDUCATION

**Seton Hall University**, South Orange, NJ B.S. Computer Science, May 2026 | Cum Laude

*Honors:* Dean's List 2022 - 2026

*Relevant Coursework*: Data Structures and Algorithms • Data Mining • Operating Systems • Artificial Intelligence • Software Engineering • Big Data and Cloud Computing

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript/TypeScript, SQL, C
**Frameworks & Tools:** Flask, React, Azure App Service, Docker, Git, RESTful APIs, CI/CD (GitHub Actions), FastAPI
**Cloud & Services:** Microsoft Azure, AWS
**Databases:** PostgreSQL, Neo4j
**Other:** Linux, Unit Testing (pytest, JUnit)

## TECHNICAL EXPERIENCE

**Production Application Developer | Relationships Reimagined** *June 2025 - Present*

- Develop and maintain a production web application used by active users, supporting automated assessment processing, report generation, and customer delivery through Python, AWS Lambda, S3, and automated email workflows.
- Monitor production logs and diagnose failures across processing, PDF generation, storage, and email-delivery workflows, strengthening validation and error handling to maintain reliable customer delivery.
- Deploy backend updates and maintain cloud integrations, configuration, and production workflows as the application evolves.

**Software Engineering Contributor | Care Costs America** *January 2026 - Present*

- Develop Python ingestion and normalization pipelines on a six-person team to transform inconsistent hospital machine-readable pricing files into validated, searchable data.
- Implement validation and failure-handling logic for malformed hospital records, preventing invalid data from entering downstream processing.
- Contribute through pull-request review, automated testing, and GitHub Actions workflows supporting a production-oriented AWS application.

**New Jersey Space Grant Consortium — Academic Year Intern, NASA-Funded Program** *December 2025 – May 2026*

- Designed and developed a modular Python pipeline that transformed Mars terrain datasets into structured graph representations for automated route analysis.
- Implemented metadata extraction, terrain segmentation, data validation, and Neo4j graph generation to support A* pathfinding across classified surface regions.
- Documented the pipeline, algorithmic decisions, and experimental results and presented technical findings to research stakeholders at a conference.

## SELECTED PROJECTS

**ProjectOps | Creator & Developer**

- Developed a full-stack project operations platform that allows developers to create and manage software workspaces while centralizing repository, deployment, and project metadata in one dashboard.
- Built a FastAPI and PostgreSQL backend using SQLAlchemy and Alembic, implementing project CRUD, workspace archiving, database health checks, and automated API tests.
- Created a React and TypeScript frontend and established GitHub Actions workflows for automated testing, linting, and production-build validation across the monorepo.