

David Reese

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Education

The University of Scranton	Scranton, PA
Master of Science in Software Engineering	May 2025
<ul style="list-style-type: none">GPA: 3.61/4.00Upsilon Pi Epsilon Honor Society Vice President	
Bachelor of Science in Computer Science	Scranton, PA
<ul style="list-style-type: none">GPA: 3.62/4.00, Magna Cum LaudeUpsilon Pi Epsilon Honor Society Treasurer, Dean's List	May 2024

Technical Skills

- Programming: Java, C, Python, HTML/Thymeleaf, CSS, JavaScript, VBA
- Development Tools: Spring Boot, Maven, Docker, Git/GitHub/GitLab, Mockito, JUnit
- Data Platforms: PostgreSQL, Oracle, MySQL, Hadoop

Employment

The University of Scranton	Scranton, PA
Computing Sciences Head Graduate Teaching Assistant	August 2023 – May 2025
<ul style="list-style-type: none">Taught and facilitated Computer Science labs to approximately 30 undergraduate students per semesterAssisted students with material and assignments from undergraduate computer science lecturesCollaborated with faculty to teach undergraduate lectures, proctor tests, and facilitate drop-in tutoringOversaw computer science colloquia meetings by recording sessions and coordinating grading among GTAsFacilitated GTA team meetings to share updates, and address logistical or academic concerns among GTAs	
Susquehanna International Group	Bala Cynwyd, PA
Operations Analyst Intern	June 2023 – August 2023
<ul style="list-style-type: none">Designed and implemented a VBA program to retrieve and structure data from approximately 120 Excel files and 10 databases based on user inputInitiated the transition from heavily relied upon legacy VBA code into Python scripts for improved efficiency and maintainabilityDesigned and deployed a Python-based email alert system to notify colleagues when certain thresholds were met in the database	

Projects

Master's Thesis Project: RecipEase – Recipe Creation and Sharing Platform
<ul style="list-style-type: none">Developed a full-stack Spring Boot web application with Thymeleaf templating for novice users to create, share, and explore recipesIntegrated a glossary service with dynamic term parsing and real-time ingredient substitution suggestions using NLP (Natural Language Parsing) techniquesContainerized the application and PostgreSQL database with Docker for isolated, scalable deploymentImplemented user authentication with Argon2 password hashing and session managementArchitected RBAC (Role-Based Access Control) system to support admin moderation workflows
Wrapped Rewritten – Spotify Data Analyzer
<ul style="list-style-type: none">Built a Python data analytics pipeline using pandas, and matplotlib to generate personalized listening visualizations and reports
Personal Portfolio Website
<ul style="list-style-type: none">Developed a portfolio using HTML, CSS, and JavaScript, hosted via GitHub Pages
CLI Group Chat with Client-Server Communication
<ul style="list-style-type: none">Engineered a terminal-based group chat system in C with real-time client-server communication, using POSIX threads and mutexes to ensure thread-safe message handling
Multi-Threaded Job Scheduler
<ul style="list-style-type: none">Built a C-based batch job scheduler with multithreaded dispatching and time-based job execution using POSIX threads