David Reese

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EDUCATION

The University of Scranton   **Scranton, PA**
Master of Science in Software Engineering   *Anticipated Graduation May 2025*
- GPA: 3.48/4.00

Bachelor of Science in Computer Science   *May 2024*
- GPA: 3.66/4.00, Magna Cum Laude
- Upsilon Pi Epsilon Honors Society Treasurer, Dean's List

SKILLS AND TOOLS
- **Programming Languages:** Java, C, Python, HTML, CSS, JavaScript
- **Database Management:** PostgreSQL, Oracle SQL, MySQL
- **Frameworks:** Spring (Spring Boot)
- **Version Control:** Git, GitHub, GitLab
- **Containerization:** Docker (JDBC Integration and Containerization)
- **Other Tools:** VBA (Visual Basic), Apache Hadoop, Maven, Mockito, JUnit

WORK EXPERIENCE

The University of Scranton   **Scranton, PA**
Computer Science Graduate Teaching Assistant   *August 2023 – Present*
- Teach and facilitate Computer Science labs to approximately 30 undergraduate students per semester
- Assist students with material and assignments from undergraduate computer science lectures
- Collaborate with faculty to teach undergraduate lectures, proctor tests, and facilitate drop-in tutoring
- Oversee computer science colloquia meetings by recording sessions and coordinating grading among GTAs
- Facilitate 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*
- Designed and implemented a VBA program to retrieve and structure data from approximately 120 Excel files and approximately 10 databases based on user input
- Initiated the transition from heavily relied upon legacy VBA code into Python scripts for improved efficiency and maintainability
- Designed and deployed a Python-based email alert system to notify colleagues when certain thresholds were met in the database

PROJECTS
- Recipe Creation and Sharing Platform (Master's Thesis Project "RecipEase")
  - Spring Boot web application tailored to novice cooks to create, share, and discover recipes
  - Integrated a prepopulated glossary of terms and ingredient substitutions dynamically to each recipe
  - Containerized the application and PostgreSQL database using Docker for streamlined deployment
  - Implemented user authentication with secure login and profile creation
  - Designed role-based access control for content moderation and platform management
- Personal Portfolio Website
  - A simple, self-hosted webpage providing an introduction to my background, skills, and projects
- CLI Group Chat with Client-Server Communication
  - A multi-user group chat system implemented in C with client-server communication using POSIX threads
- Nand2Tetris Java Assembler for Assembly Language to Binary
  - A two-pass assembler that translates assembly language into binary for CPU simulation
- Multi-Threaded Job Scheduler
  - A multi-threaded job scheduler built in C on a FreeBSD Unix server to manage and execute concurrent tasks efficiently