Thomas Richardson

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Education

Lehigh University, Bethlehem, PA   **Graduated May 2025**
Computer Science & Business Honors Program   Cumulative GPA: 3.75
Minors in Data Science & Entrepreneurship
Relevant Coursework: Database Systems & Applications, Software Engineering, Design & Analysis of Algorithms, Statistical Methods, Computer Organization & Architecture, Systems Software, Programming and Data Structures, Foundations of Discrete Structures and Algorithms, Statistical Computing with Applications, Marketing Analytics and Artificial Intelligence

Professional Experience

P.C. Rossin School of Engineering at Lehigh University, *Computer Science Teaching Assistant*   **Aug 2024 - May 2025**
Courses: Design & Analysis of Algorithms, Database Systems & Applications, Introduction to Data Science, and Computing Ethics
- Delivered detailed, constructive feedback on over 45 homeworks, lab reports, and exams per week, improving overall student comprehension and supporting academic success
- Hosted weekly office hours and recitations, providing individualized support to dozens of students each semester and reinforcing key concepts through real-time Q&A and guided problem-solving

Lexy, *Software Engineering Intern*, Barcelona, Spain   **May 2023 - Jul 2023**
- Developed and implemented a chatbot webpage using React, CSS, and HTML, creating an intuitive and visually appealing user interface for an AI-driven marketing platform
- Built reusable, modular React components to streamline development and support scalable feature integration in a production-ready web application

Projects

LA Crime Trend Analysis, *Data Analytics and Predictive Modeling*   **Oct 2024 - Dec 2024**
- Conducted data cleaning and exploratory analysis using R in RStudio
- Created visualizations including time series plots, heatmaps, and geographic maps to identify crime patterns
- Developed a Random Forest predictive model, achieving ~90% accuracy in classifying crimes as violent or non-violent based on victim demographics and area data

Eastside Uncommons, *Command-Line Property Management Application*   **Nov 2023 - Dec 2023**
- Built a command-line interface simulating a property management company using Java
- Designed and managed an Oracle SQL database, incorporating SQL statements with JDBC for seamless backend interaction

Leadership

Theta Chi Fraternity, *Chapter President*   **Nov 2022 - Nov 2023**
- Led day-to-day operations of an 85-member chapter, driving collaboration in recruitment, philanthropy, and academic initiatives
- Co-managed a $350,000 annual budget with the treasurer, ensuring strategic and responsible fund allocation
- Launched a member payment incentive program, cutting organizational expenses by nearly $10,000 annually
- Guided the chapter to win Lehigh's Fraternity Chapter of the Year for the 2022–2023 academic year

Skills and Proficiencies

Programming Languages: Java, C/C++, Rust, Javascript, CSS, HTML, SQL, R
Skills: macOS, MS Office Suite, Prezi, Visual Studio Code, Slack, GitHub, GitLab, RStudio, Oracle SQL Developer
Languages: Proficient in Spanish
Interests: Board Games, Caring for my Pet Gecko, Learning Spanish, Reading