Thor Long — Allentown, PA | (484) 725-3624

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Education

Lehigh University   Bethlehem, PA

Bachelor of Science in Integrated Computer Science and Business: GPA 3.42/4.0   August 2021 – May 2025

Honors: Lehigh University Trustees' Scholarship, Lehigh University Hughes Scholarship, CSB Honors Program,
Dean's List: Fall 2024, Spring 2024
Relevant Coursework: Design and Analysis of Algorithms, Programming Languages, Operating System Design, Web Systems Programming, Computer Organization and Architecture, Software Engineering, Database Systems and Applications.

Work Experience

Research and Development Intern – *Watgen: Startup Chile*, Santiago Chile   June 2024 – August 2024

- Collaborated in a team of 6 to develop solutions to various economic and environmental challenges within Chile, prioritizing powering solutions with carbon-neutral energy generation such as solar panels and wind turbines.
- Designed and presented 3 solution presentations to my supervisor and other Startup Chile CEOs as a preliminary of applying for the CORFO (Corporación de Fomento de la Producción) grant from the Chilean government.

Peer Notetaker – *Lehigh University Disability Support Services*, Bethlehem PA   September 2023 – May 2024

- Provided notes that are effective and clear for disabled students that are well organized, understandable, a clear reflection of the information presented, and timely delivered.
- Conducted 150 hours of note-taking services for disabled students, providing student accessibility and inclusivity.

Kitchen Manager - *Chipotle Mexican Grill*, Trexlertown PA   December 2018 - January 2023

- Proactively supervised kitchen equipment, ensuring optimal condition, quick malfunction resolutions, and asset protection, while ensuring impeccable food prep, portioning, presentation, and for an enhanced dining experience.
- Successfully trained and led a team of 60 employees to excel in 8 independent food safety audits conducted by Ecolab's Ecosure division, resulting in a consistently high compliance rating of 90% and above.

Projects

NeuFoods Online Food Pantry App: February 2024 – December 2024

- Collaborated in a team of 4 to create a version controlled, multi-language, multi-component application designed to reduce food waste by tracking pantry ingredients and recommending recipes catered to college students aged 18-24.
- Restructured webapp into mobile app in preparation for launching to the Apple app store using JavaScript, Jest unit testing, HTML, CSS, MongoDB and Mongoose effectively using the software development lifecycle.

Operating System Design Programming Project: August 2024 – December 2024

- Implemented C/C++ code using Docker that interacts directly with the operating system, with different dedicated sub-projects based on ensuring security, concurrency, virtualization, persistence, and resource management.
- Developed a strong understanding of process and thread programming models, management, and scheduling, as well as resource sharing and deadlocks to create a program that effectively addresses these topics.

Relational Database Manager: September 2023 – December 2023

- Designed, implemented, and maintained a relational database and associated application using Oracle SQL Developer, java, and JDBC to cater to the needs of a fictional rental-unit management firm.
- Created multiple java interfaces that communicate with Oracle SQL Developer, acting as different roles in regard to the rental-unit management firm, allowing the user to query, manipulate, and view content in the database.

Leadership / Activities

Men's Intercollegiate Lehigh Volleyball Squad Executive Board, Lehigh University

President   March 2024 – Present

- Coordinated a 50-person collegiate club volleyball team, by organizing practices, drills, and scrimmages to foster skill development, interpersonal connections, and positive team dynamics.
- Ensured accurate and efficient management of team affairs by effectively organizing and maintaining a 5-figure budget, healthcare documentation, and membership information throughout presidency.

Skills

Software/Computer*: Java, C, Git, JavaScript, C++, Bash, HTML, Rust, SQL, Node.js, Python, TypeScript, Apache, ReactJS, Docker.
Languages: English (Fluent), Spanish (Intermediate, Oral and Written), Cambodian (Intermediate, Oral)