

Thomas Lee

Baton Rouge, Louisiana | (337) 371-1110 | mathheejoo@gmail.com

EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

August 2022-Present

Bachelor of Science, Computer Science (Software Engineering), Honors College

GPA: 3.56

Related Coursework:

- Data Structures & Algorithms, Programming Languages, Computer Organization and Design, Discrete Structures, Object-Oriented Design, Database Management, Operating Systems, Systems Programming, Calculus 2, Differential Equations, Linear Algebra, Operating Systems, Software Systems Development, Software Quality & Testing, Compiler Construction

Yonsei University, Seoul, South Korea

February 2024-June 2024

Bachelor of Science, Computer Science (Software Engineering)

Projects (GitHub: luffysolosyonko)

Poetry Garden – React, TypeScript, Firebase

- Built a full-stack poetry sharing app with Firebase authentication and real-time database for storing user-submitted poems.
- Designed an interactive flower-association feature to visually represent each poem, enhancing engagement and discoverability.
- Optimized responsive front-end with React and CSS, enabling seamless publishing and browsing across devices.

Discord Workout Tracker – Node.js, Firebase, Python

- Built a Discord bot that logs structured workouts, tracks progress, and estimates calories burned for individual users.
- Integrated Firebase for persistent data storage (user workouts, performance history) and generated progress graphs over time.
- Deployed to Railway with environment variable handling, enabling seamless multi-server to use and automated uptime.

Personality Country Quiz – HTML, CSS, JavaScript

- Designed a web-based personality quiz that recommends ideal travel destinations based on user responses.
- Implemented a recommendation algorithm to analyze personality traits and suggest global travel locations.
- Improved user load performance by 25% through responsive CSS and layout optimizations

EXPERIENCE | <https://www.linkedin.com/in/thomas-lee-842a95265/>

Systems Analyst

Sept. 2025 - Present

LSU, Baton Rouge, Louisiana

- Managed and optimized **Linux-based systems**, performing monitoring, log analysis, and troubleshooting to ensure reliable operations.
- Developed **shell scripts and automation tools** to streamline workflows, enhance database performance, and reduce manual tasks.
- Diagnosed and resolved **hardware and software issues**, improving system efficiency and supporting university IT infrastructure.

Undergraduate Robotics Researcher

Sept. 2025 - Present

LSU, Baton Rouge, Louisiana

- Exploring integration of **LLMs with ABB RobotStudio** using **C# and .NET** to simplify robot programming through natural language.
- Designing **simulation tools** to improve usability of robotics platforms for education, research, and industry.
- Collaborating with faculty on advancing **robotics, AI integration, and multipurpose automation applications**.

LSU Tutor

Sept. 2023 - Dec. 2024

LSU, Baton Rouge, Louisiana

- Delivered personalized instruction in mathematics and computer science, strengthening students' comprehension of foundational concepts.
- Simplified complex problems through clear, step-by-step explanations, improving student engagement and understanding.
- Mentored college freshmen build strong academic foundations, enhancing their confidence and performance in entry-level courses.

Honors & Awards

- **Burger King Scholarship Recipient (2022)**
- **LSU Ogden Honors College Study Abroad Scholarship (2024)**
- **S&B Engineers and Constructors Scholarship (2025)**
- **Dean's List (Fall 2023)**
- **Korean Translator** – Lafayette Korean Church

SKILLS

Languages (Java, Python, C, JavaScript, TypeScript, C#), Web (React, Node.js, Firebase, HTML/CSS), Tools (Git/GitHub, Linux, VS Code), Game Dev (Unity, Game Maker, Blender)