

Mack Thompson

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EDUCATION

Auburn University

Graduation Expected Fall 2027

Degree: Bachelor of Computer Science, Minors in Business Engineering Technology & Mathematics, Certificate in Artificial intelligence.

Cumulative *GPA*: 3.71

Coursework: AI, Advanced mathematics, Algorithms, Software Modeling/Construction, Fundamentals of Computing I & II, Discrete Structures, Digital Logic Circuits, Assembly Programming...

EXPERIENCE

Application Developer, Intern

May – Aug 2025

Kahua Inc.

- Worked on QA team to develop automated testing agents and broadened the testing framework (17 tests and 12 internal functions).
- Created a developer tool that **increased my team's efficiency by ~30%**: a debug tool that recompiles the script during runtime without resetting the driver (allowing hot reloading / compiling).

Undergraduate Research Assistant

Feb 2024 – Present

Samuel Ginn College of Engineering

- Experimented with computer vision for medical diagnosis of skin conditions. Web-scraped and cleaned a dataset, then diluted a public model (EffcientNet) to develop a metric.
- Developed mobile therapy app to experiment with generative AI in the realm of psychology (full stack development)

Founder

June 2021 - Dec 2025

BWH Sports Camp

- Built this company over high school. At its peek summer, for 4 weeks I took 50-60 campers from 9:00 – 2:00 with 6 counselors. In the end I **generated over \$100K in gross revenue**
- My responsibilities involved advertising (Instagram and YouTube content), organization (Excel and Forms), counselor training, risk-management (insurance), and day to day operation

Frontend Developer

Mar 2025 - Present

Freelance

- Created a website for a local Jewelry business with custom features. Extensive testing and refinement to ship a DIY-canvas page, embedded data, dynamic product rendering, and email automations (Shopify).

Campus Involvement

Competitive Programming Team – Travel each semester to compete in ICPC

AUG 2023 - Present

Technical Interview Association – Mentor new students & workshop technical skills

AUG 2023 - Present

Association for Computing Machinery – Lectures & events with CS department

AUG 2023 - Present

Lambda Chi Alpha Active Member – Social events & charity work

MAR 2024 - Present

PERSONAL PROJECTS

Email FAQ Reply Bot

SEPT 2024

- Created for BWH Sports camp. Listens on the cloud to reply to FAQ in my inbox. Generates response with an LLM based on a confidence scoring and pre-specified information, then formats and sends the message.

Social Platform

AUG 2024

- Small messaging and calendar sharing platform to learn data management. Included an API library, a server for live messaging, and a React app.

SKILLS

Programming languages: Python, Java, HTML/CSS, JS, Ruby, C++, C#, TypeScript, Liquid, flutter, SQL

Libraries: React, Pandas, OpenAI, Selenium, PyTorch, TensorFlow, Node, Next

Other: Google Cloud, Firebase AWS, Adobe Premiere & Photoshop, Fusion, RStudio, WIX, Shopify

For more information check out mack-thompson.com