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 2024**
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 profit.**
- 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