Jack Seel

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Education

University of Michigan   **Ann Arbor, MI**
Bachelor of Science in Computer Science (GPA: 3.5/4.0)   May 2025
- Discrete Math, Data-Oriented Prog, AI, Data Structs and Algorithms, Computer Organization, Web Systems
- Tech Buzz, Michigan Marketing and Advertising Consulting Group (MAM), MRUN, Sigma Nu

Work Experience

Ally Financial   **Detroit, MI**
Cloud Engineer Intern   May. 2024-Aug. 2024
- Refactored an AWS-hosted registry API resulting in exposing compliance data from over 1,000 different Terraform module versions and finding which app teams had old versions and were putting Ally at risk
- Optimized API time complexity from $O(n)$ to $O(1)$ through program restructuring, resulting in a significant reduction in system latency and improved efficiency in data retrieval processes.
- Compiled a risk report on Ally's outdated modules from compliance data gathered, resulting in sending notifications to employees with out of date Terraform modules

University of Michigan - Healing Blue   **Ann Arbor, MI**
Full Stack Developer   Jan. 2023-Present
- Individually orchestrated the successful development and marketing of mental health app, HealingBlue, for the University of Michigan on iOS and Android resulting in over 300 students, faculty, and staff downloads
- Proficiently employed React Native, JavaScript, Python, and Firestore to include various features resulting in a screening that gives users personalized on-campus mental health resources, software that automatically uploads data to the app, search component, favorites component, and data retrieval and visualization
- Presented HealingBlue to 5,000 attendees at the university symposium, leading to collaborations with other universities to develop similar apps on their campus

Programming Experience

Proficient in Python, C++, React Native, SQL, NoSQL, Terraform, AWS, HTML, JS, CSS, Firestore, Git, and Figma

Instagram Clone | Python, React, HTML, CSS, SQL   **Ann Arbor, MI**
EECS 485 WebSystems   Mar. 2024
- Implemented RESTful API endpoints for the Insta485 application, facilitating seamless client-server interactions and improving data retrieval efficiency
- Designed and integrated a robust database schema using SQLite to support dynamic content delivery, enhancing the application's data management capabilities
- Developed client-side components using HTML, CSS, and JavaScript, resulting in a responsive and user-friendly interface that improved user engagement

Leadership Experience

Tech Buzz   **Ann Arbor, MI**
President   Jan. 2024-Present
- Hosted regular meetings with engaging discussions on cutting-edge developments and opportunities through ongoing learning and personal development resulting in a close knit community resulting in over 50 members
- Crafted weekly newsletters to include member spotlights and career prospects within the tech industry

Additional

- **Entrepreneurial spirit:** Two startups: raised $25k in funding, created LLC with 40 employees and donated profit.
- **Hobbies/Interests:** Piano, have been playing since age 4. Running, participated in (RAM) Run Across Michigan