Ethan McIntyre

(734) 318-7310 | methan@umich.edu | linkedin.com/in/ethan-mcintyre68 | jorelm68.github.io

EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Science in Computer Science, Minor in Business Administration — *Aug 2022 – May 2026*

Universidad de Alicante — Alicante, Spain
Spanish Study Abroad — *May, 2024 – June, 2024*

EXPERIENCE

Software Engineer Intern — June 2024 – Aug 2024
Streetmeet Inc. — *Ann Arbor, MI*
- Assisted development of a full-stack mobile application using React Native, Kotlin, Swift, Rust, and MongoDB
- Enhanced skills in pair programming, code reviews, Git source control, and collaboration with designers via Figma, while meeting regularly with a project manager, learning how to work efficiently as part of a cross-functional team
- Took initiative with incorporation, delegation, and applications for legal services and startup funds like Y Combinator and Spark, securing essential resources, funding, and business learning opportunities

Clerk — Jan. 2023 – May 2024
Ross School of Business — *Ann Arbor, MI*
- Documented and researched business data for DNEP, a program within Ross that seeks funding, advice, sponsorships, and hands-on teaching opportunities from local Detroit businesses to integrate into Ross coursework
- Distributed 500+ acceptance letters and merchandise for 15 Ross Graduate Programs

Software Engineer — Sep. 2023 – Dec. 2023
Michigan Robotic Submarine — *Ann Arbor, MI*
- Connected machinery with Python and simulated autonomous robot behavior with Turtlebots in Unity
- Implemented a Kalman filter algorithm in Python within the Robot Operating System (ROS) to help an autonomous underwater robotic submarine navigate and interpret its position based on real-time sensor data
- Collaborated with engineers and entrepreneurs in preparation for the yearly competition in California

PROJECTS

Developer Portfolio | *TypeScript, React (Router, Redux), Node.js, MongoDB, Amazon S3, Framer Motion*
- Built a full-stack hub for my projects integrating dynamic posts, animations, and responsive UI for web and mobile
- Implemented complex forms to allow for creating and editing posts with essays, images, links, and videos
- Incorporated best practices for responsive websites with flexbox, presenting an smooth experience from any device

SongChaser (MHacks Hackathon Winner) | *Python, TypeScript, Flask, Node.js, MongoDB, React* — Sep. 2024
- Awarded "Intel - 3rd Place Best Use of Intel AI" out of 132 projects, winning $1,500 and 3 Intel GPUs
- Designed a React TypeScript front-end with Next.js and Bootstrap for a song-guessing game
- Gamified the project allowing users to authenticate with Spotify and compete against each other in real-time
- Used Flask to host the A* and the KNN algorithms manually trained on 10,000 songs using Intel's AI PC

Impact-Resume | *TypeScript, React, Next.js, Firebase, Stripe, react-pdf, react-beautiful-dnd* — Aug. 2024
- Developed a professional resume builder for college students with business or computer science degrees
- Monetized the project with Stripe for payment processing Google OAuth for secure user account management
- Integrated the react-pdf library to transform Firestore database resume information into exported PDFs

Scrap | *JavaScript, React Native, Node.js, Express.js, MongoDB, Amazon S3* — May 2023 – July 2023
- Created a mobile app for scrap-booking, traveling, recruiting, building connections, and sharing your memories
- Implemented React Context for authentication with saved tokens for automatic logins with expiration dates
- Designed the Node.js back-end to handle push notifications, automated emails, database encryption, image compression and resizing, and queries for cascade deletions, structural changes, and distance calculations

SKILLS

Languages: JavaScript/TypeScript, C/C++, Python, HTML/CSS
Frameworks: React, Next.js, React Native, Node.js, Express.js, Flask, MongoDB, Firebase
Developer Tools: Git/GitHub, Expo/EAS, Google Console, Apple Developer, TestFlight
Miscellaneous: Proficient Spanish Speaker, Hobbyist Skydiver, Competitive Ballroom Dancer, Guitarist/Pianist