

Ethan McIntyre

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science, Minor in Business Administration

Ann Arbor, MI

Aug 2022 – May 2026

Universidad de Alicante

Spanish Study Abroad

Alicante, Spain

May, 2024 – June, 2024

EXPERIENCE

Software Engineer Intern

Streetmeet Inc.

June 2024 – Aug 2024

Ann Arbor, MI

- Developed 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

Software Engineer

Michigan Robotic Submarine

Sep. 2023 – Dec. 2023

Ann Arbor, MI

- Implemented a Kalman filter algorithm in Python within the Robot Operating System (ROS) to help an autonomous underwater robotic submarine navigate and adjust its position based on real-time sensor data
- Gained collaboration and communication skills in a competitive project team of engineers and entrepreneurs

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

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 with a Node.js back-end in JavaScript integrated with MongoDB, allowing users to authenticate with their Spotify accounts and compete against each other in real-time
- Built a Flask server in Python to host the A* Path-Finding optimization algorithm and the K-Nearest Neighbors algorithm implemented with Euclidean distance and 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 by integrating with Stripe for reliable payment processing of premium subscriptions and implemented Google authentication for automatic secure user account management
- Designed a drag-and-drop interface using react-beautiful-dnd allowing users to reorder all elements of their resumes
- Built upon the react-pdf library to transform Firestore database data into carefully crafted PDFs ready for export

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 global state management with React Context for authenticated users, utilizing Expo Secure Store to save tokens for automatic login and account management while terminating sessions during password resets
- Designed a dynamic light/dark mode and responsive dimensions in React, utilizing custom hooks for state management, a hand-crafted cache synchronized with the back-end, and a custom API for back-end connectivity
- Developed a Node.js back-end for handling push notifications with Expo Notifications, automating email messaging with Nodemailer, encrypting user information with Bcrypt, image compression and resizing with Sharp, and implementing database algorithms for cascade deletions, permanent structural changes, and distance calculations

SKILLS

Languages: JavaScript/TypeScript, C/C++, Python, HTML/CSS, R, ARM

Frameworks: React, Next.js, React Native, Node.js, Express.js, Flask, MongoDB, Firebase, ROS

Developer Tools: Git/GitHub, Expo/EAS, Google Console, Apple Developer, Squarespace Domains, Heroku, Vercel

Miscellaneous: Proficient Spanish Speaker, Hobbyist Skydiver, Competitive Ballroom Dancer, Guitarist/Pianist