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Max Roberts

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Education

Emory University | Atlanta, GA

Aug 2022 – May 2026

- *B.S. in Computer Science, Minor in Economics* | GPA: **3.70/4.00** | **Dean's List Spring 2025**

Experience

Cox Automotive Inc. | *Software Engineer Intern* | Atlanta, GA | 05/2025 – 08/2025

- Built a **C#** microservice to toggle features without code change for feature testing and user experimentation.
- Increased system quality by writing **automated unit and integration tests** for feature toggle microservice.
- Monitored system performance and debugged failures using **Splunk**.
- Selected as **winner** of internal company **AI hackathon** for reducing car dealership compliance audit time by 300% by building an automatic AI compliance audit bot using a browser extension and **AWS bedrock**.
- Saved product managers across Cox Auto **2–4 hours weekly** on manual date reconciliation by developing an AWS-hosted **Slack bot** with **Rally API** integration and a **SQLite** database to automate scheduling conflict syncing.
- Designed and implemented tooling for remediation of a **severe cyber security threat** as part of a Tiger Team.

nCent Holdings | *Software Engineer Intern* | Remote | 10/2024 – 04/2025

- Served as a fullstack engineering intern, utilizing **React** and **Node.js** to design and develop the nCent platform, including database design and customer data modeling, enabling users to monetize their personal data.

Emory Computer Research Lab | *Undergraduate Researcher* | Atlanta, GA | 09/2024 – 03/2025

- Conducted **research** on using simultaneous **RFID Tag Readers** to create a programmable ecosystem of IoT stickers that enable embedding internet capabilities into the environment, particularly regarding DIY projects.

Personal Projects

[geoChat](#) | **React, NodeJS, MongoDB, Docker, AWS, Socket.io**

- Built a full-stack, anonymous live chat app; achieved **100+ unique users, 1000+ messages, 600+ user sessions**.
- Anonymous and accountless – user access granted through OSM geofencing data (87 supported zones).
- Deployed with **Docker** on **AWS**, incorporating a **CI/CD** pipeline via GitHub Actions for automated deployment.
- Planned and executed a marketing campaign via Fizz, Instagram, custom business cards, and word-of-mouth.

[Solo](#) | **SwiftUI, Mapkit, Firebase**

- Implemented a custom globe-based navigation system to display meetups for travelers in foreign cities.
- Real-time data syncing, authentication, and messaging using Firebase and client-side MVVM architecture.
- Implemented a cache system for user profiles, chats, meetup lookups, and images to reduce database reads.

[Worldline](#) | **React Native, Expo, Mapbox**

- Developed a data visualizer for photo library metadata: EXIF statistics, location layers, cluster density processing.
- Developed custom “Worldline” animation with preloaded interpolated points that travels between users’ photo library locations and dynamically cleans itself up to prevent lag.

[Venmo-Receipt-Scanner](#) | **React Native, Python/Flask, Pytesseract, OpenCV**

- Full-stack app using **Pytesseract** for computer vision **OpenCV** for image processing to parse receipt items.
- Uses a Venmo API to allow users to automatically send Venmo requests for receipt items parsed by the app.

Community Involvement

[Emory Impact Investing Group](#) | *Senior Analyst* | Atlanta, GA | 01/2023 – 09/2024

Kappa Alpha Epsilon | *Philanthropy and Fundraising Chair* | Atlanta GA, | 10/24 – Present

TECHNICAL SKILLS & CORE COMPETENCIES

Languages: Python, C#, JavaScript/Typescript, SQL, Swift, Java, C++

Frameworks/Libraries: React, .NET, SwiftUI (MVVM), Tailwind, Node.js, React Native, OpenCV, Socket.io

Tools/Infrastructure: Git, Docker, AWS, OpenAPI/Swagger, Postman, Firebase, MongoDB, PostgreSQL, GCP

Core Competencies: RESTful APIs, CI/CD (GH Actions/AWS), Debugging, Observability, Diagramming, Agile