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

CodeMettle | *Software Engineer Intern* | Atlanta, GA | 09/2025 – Present
- Supporting development on Terminus (**Typescript, Scala/Java, Grafana, MongoDB**), a nodal management platform used to configure and manage devices across communication networks.
- Developing a protocol template development kit that enables users to manage and create templates and custom data transformations for common device protocols.

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 weekl**y on manual date reconciliation by developing an AWS-hosted **Slack bot** with the **Rally API** and a custom **SQLite relational database** to automate schedule syncing.
- Designed and implemented tooling for remediation of a **severe cyber security threat** as part of a Tiger Team.

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**.
- Reduced database reads by **30%** by implementing a **local cache layer** for user profiles and chats.

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.

TECHNICAL SKILLS & CORE COMPETENCIES

Languages/Markup: Python, C#, JavaScript/Typescript, SQL, Swift, Java, C++, HTML/CSS
Frameworks/Libraries: React, .NET, SwiftUI (MVVM), Tailwind, Node.js, React Native, OpenCV, Socket.io
Tools/Infra: Git ,Docker, AWS, OpenAPI/Swagger, Postman, Firebase, MongoDB, PostgreSQL, Terraform/IAC, GCP
Core Competencies: RESTful APIs, CI/CD (GH Actions/AWS), Debugging, Observability, Diagramming, Agile

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