William Runyon

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Education

Master of Science	**Georgia Institute of Technology**	*Atlanta, GA*	**12/2024**

- Major in Computer Science (4.0 GPA)

Bachelor of Science	**Georgia Institute of Technology**	*Atlanta, GA*	**12/2023**

- Computer Science (4.0 GPA; Class Rank #1 of 7385)

Diploma	**Thomas Stone High School**	*Waldorf, MD*	**05/2019**

- Valedictorian (Class Rank #1; 4.5 GPA)

Experience

Software Engineer, Intern	**Kyndryl** (formerly part of IBM)	*Austin, TX*	**5/2023 - 8/2023**

- Led design and development of an Azure cloud SAAS solution that could manage Kyndryl's cloud infrastructure, which drives 20 billion in revenue a year, using the latest technologies including **Azure, Next.js, Redux, Redux Query (with automatic token refreshing), Azure Functions, Azure Pipeline, Docker Containers, Recharts.js, Chart.js, Tailwind, NextAuth, the Azure API, Postman, Thunderclient, Python, PowerBI, AWS EC2 (for PowerBI Desktop), and Terraform.**
- Created a subscription page which validated whether the Azure subscription entered could query the **Azure API**, and would persist the information using a combination of **Redux** for global state management, **local storage cookies**, and **storage in the cloud**.
- Developed Azure functions to distribute **access tokens**, provision storage through **Azure Blobs,** and fetch data from the Azure API and reorganize it so that it could be used in table and chart visualizations.
- Protected routes using **NextAuth** and **JWT** to ensure only authorized employees had access.
- Developed actionable buttons within an Admin dashboard that would change the state of infrastructure on the cloud per suggestions made after analyzing real time diagnostics that drove down costs at the company by 72%.

Software Engineer, Research	**GT - Experimental Flights**	*Atlanta, Georgia*	**1/2022 - Present**

Drone-based Delivery System: Led a team of 15+ students in creating a full stack SAAS application that managed real-time drone flight information in the backend through a custom Admin dashboard for an inventory management system. (OpenCV | Next.js | Django | PostgreSQL | Authentication | Figma | CI/CD)

Software Engineer, Research	**GT - Augmented Environments**	*Atlanta, GA*	**8/2021 - 12/2021**

3D Web-booklet (Featured in MIT Press): Incorporated AR/VR components using Mozilla Hubs to create an engaging learning experience. (Vue.js | TypeScript.js | Three.js)

Software Engineer, Open Source	**Marta ARMY, LLC**	*Atlanta, GA*	**6/2021 - 9/2021**

Atlanta Transit Map: Implemented interactive card in map UI that displays real-time transit information from Marta's catalog. (React.js)

Projects

- **Team Assignments (Machine Learning [ML] TA):** Created a form used by 600+ students and combined information from Canvas, Gradescope, and the form to pair students to their TA preference. Generated documents using **Pandas** to represent team assignments and sent 115 custom emails using the **Microsoft Graph API** to introduce TAs to students. **(Spring 2024)**
- **Attendance Tracker:** Developed a **Full Stack** application hosted on **Render** that logged student attendance via a QR code and would show the number of attended classes and missed classes from an admin dashboard. The application ensured students were within a mile of the teacher using **geolocation** and displayed logged students via **websockets**. This app was used in the VIP - Environmental Labs at GT to log the attendance of over 50 students and could import and export a csv of students stats. (Next.js | TypeScript | FastAPI | MongoDB | MongoDB Atlas | MongoDB Compass | NoSQL | NextAuth). **(Fall 2023)**
- **Realestate App + Admin Dashboard:** Created realestate site that had a **frontend** and **admin dashboard** where realtors could add listings and display "realtor of the month" on the frontend (Django | Django-REST Framework | PostgreSQL | PGAdmin| Docker). **(Summer 2023)**
- **Memories App:** Created a Memory web app that held images of memories with a title, description, and dates. (MERN Stack | MongoDB | MongoDB Atlas | MongoDB Compass | NoSQL | React.js | Node.js | Express.js | Redux). **(Spring 2023)**
- **Expense Tracker:** Made an expense tracker that took the name and price of an item and displayed the total cost of all items using **Typescript** and **ESlint** for type checking (Next.js | Typescript | ESLint | Firebase | NoSQL). **(Spring 2023)**

Mentorship

Computer Science Tutor: Machine Learning CS 4641/7641 **(Spring 2023 - Current)** | Object Oriented Programming CS 1331 **(Spring 2022)**
Math Tutor: Algebra 1 & 2 | Geometry | Pre-calculus | Calculus | Trigonometry **(Spring & Fall 2020)**

Skills

- Java | JavaScript | TypeScript | C | MYSQL | Node | Express | React | Vue | Redux | NoSQL | Git | Github | Python | Material UI
- AWS | Azure | Cloud Computing | Lambda | Shell Scripting | Automation | CI/CD Pipeline | Github Actions | Docker
- Frontend | Backend | Full-Stack | Postman | OOP | Unity 2D | Game Development | Unit Testing
- R | Agile | SCRUM | Sequence Diagram | Design Class Diagram | Unified Modeling Language
- Object-oriented Programming | Computer Organization and Programming | Linear Algebra | Multivariable Calculus | Discrete Mathematics
- Machine Learning | Deep Learning | Design & Analysis of Algo | Statistics | Data Structures | AI | Intro to Robotics | Computer Graphics