William Runyon

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Education ___

Master of Science Georgia Institute of Technology Atlanta, GA, USA 12/2023 - 12/2024

• Major in Computer Science

Bachelor of Science Georgia Institute of Technology Atlanta, GA, USA 08/2021 - 12/2023

- Major in Computer Science
- 4.0 GPA

Experience _____

Software Engineer, Intern

Kyndryl

Austin. TX. USA 05/2023 - 08/2023

- Led the 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 of Azure, NextJS, Redux, Redux Query (with automatic token refreshing), Azure Functions, Azure Pipeline, Docker Containers, Recharts, ChartJS, Tailwind, NextAuth, the Azure API, Postman, Thunderclient, Python, PowerBI, AWS EC2 (for PowerBI Desktop), and Terraform.
- Created a subscription page which validated whether the subscription 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 tokens 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

Software Engineer, Research

GT - Experimental Flights

Atlanta, Georgia

01/2022 - Present

• **Drone-based Delivery System:** Researched & suggested Tello drone that cost 10% of our budget; wrote code to integrate drone with PC; developed inventory-management system to give client interactive dashboard where warehouse statistics are presented (React/Django)

Software Engineer, Research

GT - Augmented Environments

Atlanta, GA 08/2021 - 12/2021

• 3D Web-booklet: Incorporated AR/VR components using Mozilla Hubs to create an engaging learning experience (Vue.js & TypeScript.js)

Software Engineer, Open Source

Marta ARMY, LLC

Atlanta, GA

06/2021 - 09/2021

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

Projects

- Landscape Image Classification: Preprocessed 4,000 images and applied unsupervised and supervised techniques to achieve an accuracy of 70% (KMeans, Gaussian Mixture Model, DB-Scan, Silhouette Coefficient, Calinski Score) (Fall 2022)
- Predict if Brain Tumor is Benign or Malignant: Developed deep learning models that accurately detected brain tumors by identifying abnormalities and diseases in MRI scans from patients with nearly 80% accuracy. (RNN, CNN, Attention, Decision Trees) (Spring 2023)
- Tower Defense Game: Led the development of a 2D "Tower Defense" game using SceneBuilder, Agile/Scrum methodologies, and Design Patterns like Singleton and Factory Method (Java, JavaFX, JUnits) (Spring 2022)
- Vehicle with Greatest Fuel Economy Report: Collaborated with team to create statistical models that determined the most fuel-efficient vehicle using multivariable analyses (R) (Spring 2022)

Mentorship

- Computer Science Tutor: Machine Learning CS 4641/7641 | Object Oriented Programming CS 1331 | Programming (Current)
- Math Tutor: Algebra 1 & 2 | Geometry | Pre-calculus | Calculus | Trigonometry (01/2020 09/2020)

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 | Al | Intro to robotics | Computer Graphics

Others

- GT WebDev: Created agar.io-inspired app that supported multiplayer functionality (p5.js)
- Valedictorian: Class rank #1, valedictorian of Thomas Stone high school 2019.