

Matthew Jinks

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Atlanta, GA

EDUCATION

Georgia Institute of Technology – Bachelor of Science, Computer Science

December 2023

Atlanta, GA

PROJECT EXPERIENCE

Slow + Reverb Music

2024

Software Development with Cloud Services

- Developed unique microservices-based music streaming web application, featuring slow and reverb audio effects to deliver unique listening experiences tailored to the popular “Slowed + Reverb” music trend
- Leveraged Microsoft Azure’s cloud services for backend infrastructure including Azure SQL Database, Azure functions, Azure API Management, Azure Container Registry, Azure Web App, & Blob Storage
- Implemented CI/CD pipeline using Azure Pipelines ensuring consistent, automated Docker builders and deployments to Azure Web App
- Created a robust front-end design with modular Angular Components, enabling effective data binding and reusable UI components across the application
- Integrated Web Audio API for custom audio processing

Online Store Backend

2024

Backend Development

- Designed and implemented a secure backend API for an online store, managing all aspects from database schema design to API endpoint implementation
- Developed robust authentication and authorization mechanisms using JWTs and bcrypt for password hashing, enhancing security measures for user data protection
- Conducted extensive unit testing using Jasmine to ensure the reliability and functionality of CRUD operations
- Employed Express to create RESTful API endpoints and integrated PostgreSQL for data management, leveraging db-migrate for structured database migrations.

WORK EXPERIENCE

Georgia Tech Research Institute

Atlanta, GA

Full Stack Software Engineering CO-OP

May 2018-December 2019

- Created hundreds of RESTful API tests that exposed critical defects and ensured reliable code
- Discovered and fixed multiple server errors that prevented modules from operating as intended
- Implemented server-side password validation procedures to prevent bypasses by malicious users
- Leveraged knowledge in Angular, Client-Service architecture, RESTful API, and Git to accomplish tasks