

Matthew Jinks

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Atlanta, GA

PORTFOLIO WEBSITE: <https://portfolio.matthewjinks.com>

EDUCATION

Georgia Institute of Technology – Bachelor of Science, Computer Science
Government Clearance – Secret

December 2023
May 2018 – Present

PROJECT EXPERIENCE

Slow + Reverb Music <https://portfolio.matthewjinks.com/cloud-project> **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 builds and deployments to Azure Web App. Integrated Web Audio API for custom audio processing.
- Created a robust front-end design with modular Angular Components written with HTML, CSS, & TypeScript, enabling effective data binding and reusable UI components across the application

Online Store Backend <https://portfolio.matthewjinks.com/storefront-backend-project> **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
- Employed Express to create RESTful API endpoints and PostgreSQL for data management
- 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

Cloud Security Policy <https://portfolio.matthewjinks.com/cloud-security-project> **2023**

- Collaborated with a team to develop a comprehensive Cloud Security Policy for a simulated large financial institution undergoing transition from on-premises to cloud infrastructure
- Drafted detailed memo for the Chief Information Security Officer (CISO) outlining the identified cloud-related threats and their potential impact on the bank’s operations and assets
- Developed a robust Cloud Security Policy aligned with NIST recommendations and U.S. financial regulations
- Drafted a memorandum justifying the new cloud security policies to senior management as a strategic investment that could prevent millions of dollars in breach costs

Privacy Impact Assessment <https://portfolio.matthewjinks.com/privacy-project> **2023**

- Conducted a Privacy Impact Assessment for the North Carolina State Board of Elections (NCSBE), analyzing the collection and use of Personally Identifiable Information in voter records
- Assessed legal compliance and privacy risks, identifying vulnerabilities and misalignment with federal and state regulations
- Developed and recommended privacy-enhancing policies to the NCSBE focusing on data security, access controls, and voter integrity

WORK EXPERIENCE

Georgia Tech Research Institute

Atlanta, GA

Full Stack Software Engineering CO-OP

May 2018-December 2019

- 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
- Created hundreds of RESTful API tests that exposed critical defects and ensured reliable code

SKILLS & CERTIFICATIONS

Certifications: Microsoft Certified: Azure Fundamentals (AZ-900)

Skills: Microsoft Azure (Azure SQL Database, Azure Functions, Azure API Management, Azure Container Registry, Azure Web App, Blob Storage, Azure Pipelines), JavaScript, TypeScript, Angular, Node.js, Express, HTML, CSS, Full stack development, CI/CD