Matthew Jinks

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

EDUCATION

Georgia Institute of Technology – Bachelor of Science, Computer Science   **December 2023**

PROJECT EXPERIENCE

Slow + Reverb Music https://portfolio.matthewjinks.com/cloud-project   **2024**
Software Development with Cloud Services
- Developed a music streaming web application using a serverless architecture, incorporating slow and reverb audio effects to cater to popular "Slowed + Reverb"
- 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 polices 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), Oracle Certified Associate Java SE 8 Programmer
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, Docker, CI/CD, PostgreSQL