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

Code Comments Generator https://github.com/mattjinks/Code-Comments-Generator   **2024**
- Built a Ruby on Rails API utilizing OpenAI's GPT-4o model to generate comments for code snippets
- Implemented real-time comment generation through streaming capabilities, enhancing user experience
- Developed a separate Ruby client application to interact with the API and display generated comments.
- Utilized Server-Sent Events (SSE) for dynamic updates within the client application.

Slow + Reverb Music https://portfolio.matthewjinks.com/cloud-project   **2024**
- Developed a music player web application using a serverless architecture, incorporating slow and reverb audio effects to cater to 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
- 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**
- Designed and implemented a secure backend API for an online store, managing all aspects from database schema design to RESTful services 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

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
Languages: Java, JavaScript, TypeScript, HTML/CSS, Python, SQL
Frameworks: Ruby on Rails, Angular, Express, Node.js
Developer Tools: Microsoft Azure, Amazon Web Services, CI/CD, Git, Docker, VS Code, Postman
Databases: PostgreSQL, Azure SQL, Azure Cosmos DB