

Matthew Jinks

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Atlanta, GA

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

EDUCATION

Georgia Institute of Technology – Bachelor of Science, Computer Science

December 2023

PROJECT EXPERIENCE

System Design Copilot <https://portfolio.matthewjinks.com/system-design-copilot> 2024

- Developed an AI-powered system design copilot to guide users in designing software architecture, providing feedback on decisions and tradeoffs such as “availability vs. consistency”
- Built an interactive web app with React that allows users to create and visualize system design diagrams through real-time flow interactions
- Implemented chat interface that allows users to discuss design decisions step-by-step
- Implemented a chat-stream API using Go and Azure OpenAI SDK to handle requests and stream responses to client

Code Comment Generator <https://portfolio.matthewjinks.com/code-comments-generator> 2024

- Built a Rails API utilizing OpenAI’s GPT-4o model to generate comments for code snippets
- Developed a separate Ruby on Rails client application to interact with the API and display generated comment
- Implemented real-time comment generation through streaming capabilities, enhancing user experience
- 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 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

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
- Leveraged knowledge in AngularJS, Client-Service architecture, RESTful API, and Git to accomplish tasks

SKILLS & CERTIFICATIONS

Certifications: Microsoft Certified: Azure Fundamentals (AZ-900), Oracle Certified Associate Java SE 8 Programmer

Languages: Go, Java, JavaScript, TypeScript, HTML/CSS, SQL

Frameworks: Ruby on Rails, React, Angular, Express, Node.js

Developer Tools: Microsoft Azure, CI/CD, Git, Docker, VS Code, Postman

Databases: PostgreSQL, Azure SQL Database, Azure CosmosDB