Andrew Gagliostro

arg5nq@virginia.edu | (973)-830-7793 | https://github.com/andrew-gagliostro

Experience

KPMG Digital Lighthouse | Software Engineer | Services Specialist   *September 2021 - Present*

Working as a services specialist with the Digital Lighthouse Software Development and Integration Team.

- API design and implementation: delivered custom web apps and microservices that meet strict requirements around monitoring, stability, and scalability.
- Database design and deployment - optimized SQL and ORM queries and for heavy-load operations, improving API performance by over 20%.
- Delivered technical design documentation to clients detailing API functionality, server-side logic/dataflow, and performance metrics.
- Utilized recurring batch jobs to perform database health-checks and maintenance operations for several cross-functional projects.
- Led initiative in building custom Express backend to be used as a template for internal developers, increasing velocity and stability during the API delivery process.
  - Evaluated features, limitations, and security considerations associated with potential dependencies, determining which options would satisfy requirements for each part of our stack.
- Built template and solution APIs to be used as an onboarding project to familiarize new hires and interns with our stack and development workflow.

KPMG | Low Code Advisory Intern   *June 2020 – August 2020*

Virtual summer internship working as an advisory intern within KPMG's Federal Digital Lighthouse Group.

Appstyx S.R.L.S. | Backend Development Intern   *May 2019 – September 2019*

Summer internship working on backend development in JavaScript. Improved Express API functionality for a production appointment application.

- Migrated from Postgres to MongoDB in order to satisfy requirements of varying client use cases.
- Transitioned scheduling service from monolith application to microservice architecture with AWS Lambda and API Gateway.

Personal Projects

Node.js Module | Azure Data Lake SDK

Built Node.js Typescript module - SDK which ingests Azure configuration information and provides functions to consume and manage Microsoft Azure Data Lakes – integrated with Azure Active Directory.

- Published on NPM - https://www.npmjs.com/package/pnp-blob-storage-arg

React Web App | Charitable Fundraising Platform

Developed React web application on AWS Amplify to further full-stack skillset.

- Built out backend with cloud/microservice architecture, authentication flow, and GraphQL API.
- Improved frontend skillset building out React JS components (forms, events, keys, router).
- Utilized: EC2, S3, Lambda, API Gateway, DynamoDB, IAM, Cognito

Academic Research | Data Driven Malware Detections

Evaluated existing vulnerabilities in TensorFlow repository with the goal of understanding how we can better vectorize source code to detect zero-day vulnerabilities complex codebases.

Technical Skills

Java, JavaScript, Typescript, Python, C, C++
NodeJS/Express, Spring/Spring Boot, Maven
React, Angular, HTML, CSS
SQL, NoSQL/MongoDB, GraphQL, Hibernate, Liquibase, Prisma
Microsoft Azure, AWS, Docker, Git, Confluence, Jira, IAM, JWT, Azure AD

Education

University of Virginia — *Fall 2017-Spring 2021*

Bachelor of Science | School of Engineering and Applied Science | Major in Computer Science, Engineering Business Minor
GPA: 3.60 | Phi Eta Sigma Honor Society | HackCville Mentor | Kappa Sigma Fraternity