

# Andrew Gagliostro

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## Experience

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### KPMG Digital Lighthouse | Software Development Engineer

2021 - Present

- Led the end-to-end design and development of several NodeJS and Java Spring applications.
- Implemented server-side business logic and built out backend infrastructure for custom APIs and microservices, meeting strict requirements around monitoring, stability, and security.
- Collaborated with clients to define and document project requirements.
- Delivered technical design documentation to clients detailing API functionality and server-side logic/dataflow.
- Optimized SQL and ORM queries and for database operations, improving API performance by over 20%.
- Developed JS/TS modules hosted on Azure Artifacts to handle cross-cutting concerns across several projects.
- Conducted analysis of features, limitations, and security considerations associated with open source dependencies to identify the most suitable components for integration into our tech stack.
- Led initiative in development of an Express backend template, serving as a reference implementation for internal developers to ensure consistency and efficiency in future projects.

### KPMG | Software Engineering Intern

Summer 2020

- Contributed to design and implementation of RESTful APIs using Java Spring framework.
- Handled database design, development, and migration with SQL, Liquibase (Java), and Prisma (TS).
- Participated in code reviews and provided constructive feedback to senior engineers.

### Appstyx S.R.L.S. | Backend Development Intern

Summer 2019

- Worked to improve functionality and stability of Express API 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

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### [Node.js Module | Azure Data Lake SDK](#)

Node.js module implemented in TypeScript: Ingests 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.
- Developed UI/UX using React JS components (forms, events, keys, router).
- Utilized: EC2, S3, Lambda, API Gateway, DynamoDB, IAM, Cognito

### [Academic Research | Data Driven Malware Detection](#)

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

## Technical Skills

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Java, JavaScript, Typescript, Python, C++

NodeJS/Express, Spring/Spring Boot, React, Angular, HTML, CSS

SQL, NoSQL/MongoDB, Cassandra, GraphQL, Redis, Hibernate, Liquibase, Prisma, TypeORM

Microsoft Azure, AWS, Docker, Maven, Git, Confluence, Jira, IAM, Okta, Azure AD

## Education

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### University of Virginia | B.S. Computer Science

2017 - 2021

Engineering Business Minor | GPA: 3.65 | Phi Eta Sigma Honor Society | HackCville Mentor