DANIEL MATHEWS

Ithaca, NY | 917-755-5732 | daniel.g.mathews@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SOFTWARE ENGINEER | ENTERPRISE SYSTEMS & CLOUD INFRASTRUCTURE

Enterprise systems professional and software engineer with experience supporting large-scale modernization initiatives within global financial institutions. Known for taking ownership of complex, high-stakes problems and operating effectively in ambiguous or unfamiliar technical territory. Hands-on experience provisioning AWS infrastructure (EC2, S3, IAM, VPC) in lab environments and building containerized applications using Docker. Actively expanding cloud architecture and DevOps expertise with a focus on scalable, reliable infrastructure.

TECHNICAL SKILLS

Infrastructure & DevOps Foundations: AWS (EC2, S3, IAM, VPC – lab provisioning), Docker (local containerization), GitHub workflows, Linux CLI fundamentals
Languages: Python, JavaScript, TypeScript, Java, HTML5, CSS3
Frameworks & Libraries: React, Node.js, Express.js, Next.js
Practices: Agile/Scrum, OOP principles, RESTful APIs, Microservices collaboration, Technical documentation

PROFESSIONAL EXPERIENCE

Bank of New York Mellon, Vice President – Business/Technology Liaison   *New York, NY, 04/2021 - Present*
- Served as primary driver for large-scale modernization initiatives across enterprise financial systems, owning end-to-end delivery from requirements through implementation and production readiness.
- Designed solution approaches in partnership with engineering teams, reviewing technical implementations and validating alignment with business and architectural objectives.
- Led multi-year overhaul of global Foreign Exchange trade booking systems, navigating legacy constraints and coordinating cross-functional engineering execution.
- Directed framework migration to Angular, defining testing strategy, overseeing release validation, and ensuring seamless transition from legacy architecture.
- Analyzed complex structured financial datasets to identify functional gaps and define scalable system enhancements.
- Acted as escalation authority for high-visibility production-impacting issues, taking ownership of ambiguous problems requiring rapid, precise resolution.

Goldman Sachs, & Co., Vice President – Operations Client Service   *New York, NY, 03/2014 - 03/2020*
- Led cross-functional teams supporting operational systems servicing high-value institutional clients across the Americas.
- Managed complex, time-sensitive operational workflows where precision and system accuracy were critical to regulatory compliance and client trust.
- Collaborated directly with product development and engineering teams to prioritize and implement system enhancements improving reliability and scalability.
- Took ownership of high-impact technical and operational issues beyond defined role scope, independently driving resolution across departments.
- Built reputation as a trusted escalation point for ambiguous, high-risk problems requiring analytical rigor and decisive execution.

TECHNICAL PROJECTS

NewsLingo - [GitHub](#) | [App](#) **– JavaScript | React | MongoDB | Node.js | Express.js | RESTful API | JWT**
An interactive language learning platform serving foreign language news articles and on-demand word translation.
- Built a full-stack MERN application serving curated foreign-language news content through authenticated backend endpoints.
- Implemented JWT-based authentication with bcrypt password hashing and managed API secrets using environment variables.
- Created a server-side translation endpoint that proxies external dictionary API requests to prevent client-side exposure of credentials.
- Designed MongoDB user profiles supporting secure storage of login credentials and personalized vocabulary collections.
- Built backend safeguards to prevent malformed third-party data from propagating to the frontend application.

RabbitHole - [GitHub](#) | [App](#) **- TypeScript | React | PostgreSQL | Node.js | Docker**
Social media application serving personalized content based on user interaction patterns.
- Designed and built a full-stack PERN application with JWT authentication and PostgreSQL database integration.
- Containerized application using Docker to standardize development environment configuration and streamline deployment workflows.
- Architected backend services following object-oriented design and RESTful API principles.

Trail Rider - [GitHub](#) | [App](#) **– JavaScript | MongoDB | Node.js | Express.js | EJS**
Web-based appointment scheduling application for a local business.
- Built a server-rendered Node/Express application modeling structured client intake and appointment scheduling workflows for a local business.
- Implemented Google OAuth authentication with tiered role-based authorization for admin, staff, and client access levels.
- Designed MongoDB schemas to manage appointment records, user roles, and relational data dependencies within a centralized monolithic architecture.
- Enforced controlled access to scheduling data within a centralized monolithic architecture.

EDUCATION & CERTIFICATIONS

General Assembly, Full-stack software engineering training/bootcamp

Marymount Manhattan College, B.A. in International Studies

AWS Certified Cloud Practitioner

Currently studying AWS Solutions Architect Associate curriculum