

Agus Mathew

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OVERVIEW

Full-stack engineer with **10 years of experience**, specializing in building scalable, high-quality systems across the full software development lifecycle from design to production.

KEY ACHIEVEMENTS

- **Finbogo Platform:** Designed and implemented a healthcare booking system from scratch using a fully serverless microservices architecture on AWS with Node.js, Next.js, and MongoDB, contributing to securing major investment and successful product launch.
- **Government of Bahamas – COVID Platform:** Built a national COVID vaccination and testing web application to support booking and management workflows for the Government of Bahamas, delivering a highly available and secure system used at scale.
- **Academic:** Top 21% (All India Rank – 5349) in GATE 2017 out of 108,495 students.

EXPERIENCE

- **Finbogo Limited** Altrincham, Manchester, UK
Senior Full Stack Engineer *Mar 2024 – Present*
 - **Platform Architecture:** Architected and owned the end-to-end serverless booking and scheduling platform using AWS Lambda, API Gateway, and CloudFormation, supporting dynamic availability management across treatments, locations, and practitioner hours for a multi-tenant healthcare SaaS product.
 - **Concurrency & Scheduling:** Designed and implemented a queue-based slot scheduling system to ensure concurrency safety and eliminate double-booking under high traffic conditions.
 - **Search & Data Sync:** Leveraged MongoDB Atlas Search to enable geolocation-based, relevance-ranked discovery and implemented MongoDB Triggers for real-time data synchronization across distributed services.
 - **Security & Compliance:** Implemented secure authentication and authorization using AWS Cognito and RBAC, integrated payments via Mollie and accounting systems via Sage Intacct, and enforced encryption, audit logging, and GDPR-aligned data protection practices.
 - **Performance & Scalability:** Optimised backend performance using provisioned concurrency, lambda warmers, etc for AWS Lambda and scaled Atlas Search to support growing B2C traffic while maintaining low-latency, relevant search results under load.
 - **SEO & Discoverability:** Implemented SEO best practices including JSON-LD structured data, dynamic sitemaps, and server-side rendering (SSR/SSG) to significantly improve B2C discoverability and search engine ranking.
 - **DevOps & Observability:** Established CI/CD pipelines using GitHub Actions with automated testing via Jest and Playwright, and deployed applications using AWS Amplify with comprehensive monitoring, logging, and alerting to maintain SLA compliance.
 - **Cross-Functional Collaboration:** Worked closely with product, design, and customer support teams to onboard customers with complex, non-standard workflows and translate business requirements into scalable technical solutions.
- **ISPG Private Limited** India
Full Stack Engineer *Jan 2021 – Mar 2024*
 - **Mission-Critical Platforms:** Led delivery of large-scale government and B2B/B2C platforms, including a nationwide COVID vaccination and testing system supporting 500K+ users with high availability and peak-load resilience.
 - **Technical Leadership:** Served as Technical Lead and Project Manager, mentoring junior and mid-level engineers, coordinating cross-functional teams, and ensuring on-time delivery aligned with regulatory and client requirements.
 - **Cloud Security & Compliance:** Architected secure AWS infrastructures applying IAM least-privilege, RBAC, encryption, WAF, GuardDuty, VPC isolation, replication, and disaster recovery in compliance with GDPR and cloud security best practices.
 - **CI/CD & DevOps:** Designed and maintained automated CI/CD pipelines using AWS CodePipeline, GitHub Actions, CloudFormation, SAM, and containerized workloads for reliable and repeatable releases.

- **Full Stack Systems:** Built and modernized scalable backend and frontend systems using Node.js, NestJS, Go, React, MongoDB, MySQL, and event-driven serverless architectures across CRM, marketplace, payments, and mobile platforms.

• Buddiz AI

India

Freelance Software Consultant

Oct 2021 – Present

- **Team Leadership:** Led a team of four engineers and partnered with executive leadership to design and deliver scalable client-focused solutions, contributing to a 30% increase in company profitability.
- **Platform Architecture:** Architected and deployed full-stack e-commerce and AI-driven platforms using NestJS, ReactJS, MongoDB, and AWS, with infrastructure automated via CloudFormation and CDK.
- **AI Education Platform:** Supported development of an AI-powered education platform delivering personalized learning paths, real-time insights, automated grading, and enhanced student engagement.

• Tentwentyfour S.a.r.l

Luxembourg

Software Engineer

Jul 2020 – Jan 2021

- **Payroll Platform:** Developed a web-based payroll management system using Vue.js and TypeScript, automating payroll workflows and applying modern frontend architecture best practices.
- **Production Systems:** Contributed to WordPress (PHP) and Django (Python) systems, enhanced features for reporter.lu mobile applications, and managed CI/CD, code reviews, and mobile deployments via Jenkins and Phabricator.

• Cyspan Systems

India

Software Engineer

Sep 2018 – Jun 2020

- **CMS Platform:** Developed a custom content management system enabling users to create, manage, and publish pages, press releases, and rich media content including photos, video, and audio.
- **Client Collaboration:** Worked directly with US and European clients to diagnose and resolve frontend and backend issues, delivering timely enhancements and maintaining high customer satisfaction.

• Turbolab Technologies

India

Software Engineer

Aug 2016 – Aug 2018

- **Data Engineering:** Designed and delivered 100+ web scrapers using Python (Scrapy, BeautifulSoup, Selenium, lxml) for data mining and analysis with production-ready, tested solutions.
- **Client Solutions:** Collaborated with international clients to gather requirements, translate them into technical solutions, and ensure reliable deployment using NumPy, pandas, Azure, Git, and Jira.

EDUCATION

• Edge Hill University

Ormskirk, UK

Master of Computer Science (Merit)

Sep. 2022 – Sep. 2023

• Government Engineering College Palakkad

Kerala, India

Bachelor of Computer Science and Engineering (First Class)

Jun. 2012 – Aug. 2016

SKILLS

- **Languages:** TypeScript, JavaScript, Python, Java, Go, C++
- **Frameworks:** Node.js, NestJS, Next.js, React.js, Django, Flask, FastAPI, Vue.js, AngularJS, ExpressJS
- **Databases:** MongoDB, MySQL, PostgreSQL, DynamoDB, BigQuery, Atlas Search, Redis, Cassandra
- **DevOps & Platform Engineering:** Docker, CI/CD, Platform Engineering, CloudFormation, SAM, CDK, Amplify, AWS (IAM, Lambda, API Gateway, EC2, ECS, S3, Route53, Cognito)
- **Messaging, Security & Observability:** SQS, SNS, SES, GuardDuty, WAF, X-Ray, CloudWatch

REFERENCES

- **Marie Whiteley – Senior Product Owner:** Email: mariewhiteley@hotmail.com — Mobile: +44 7855 503184
- **Daniel James Clack – Engineering Manager:** Email: djclack@gmail.com — Mobile: +44 7743 957788
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