

# 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  
Oct 2021 – Present  
*Freelance Software Consultant*
  - **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.
- **Tenttwentyfour S.a.r.l** Luxembourg  
Jul 2020 – Jan 2021  
*Software Engineer*
  - **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  
Sep 2018 – Jun 2020  
*Software Engineer*
  - **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  
Aug 2016 – Aug 2018  
*Software Engineer*
  - **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

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- **Edge Hill University** Ormskirk, UK  
Sep. 2022 – Sep. 2023  
*Master of Computer Science (Merit)*
- **Government Engineering College Palakkad** Kerala, India  
Jun. 2012 – Aug. 2016  
*Bachelor of Computer Science and Engineering (First Class)*

## SKILLS

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- **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

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- **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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