

Anthony A.S. Baptiste, MSc

Trinidad and Tobago | anthony.baptiste@outlook.com | linkedin.com/anthonybaptiste | anthonybaptiste.dev

EXECUTIVE SUMMARY

Engineering Leader and Senior Software Engineer with 12+ years of experience architecting secure, high-throughput web systems, distributed microservices, and AI-driven pipelines. Proven track record leading cross-functional engineering teams, eliminating legacy technical debt, and building deterministic CI/CD release engineering workflows. Specialized in TypeScript/NestJS, Python, React/Next.js, PHP/Laravel, and cloud infrastructure across GCP and Azure.

CORE COMPETENCIES & TECHNICAL STACK

- **Languages & Frameworks:** TypeScript, Node.js (NestJS, Express), Python, PHP (Laravel), React, Next.js, Vue 3, REST & GraphQL APIs
- **AI & Application Development:** Agentic AI Workflows, LLM Orchestration, Semantic Search, RAG Pipelines, Data Pipelines, Power BI
- **Cloud & Infrastructure:** Google Cloud Platform (GCP), Azure, Docker, CI/CD (GitHub Actions, Azure DevOps), Linux/Debian
- **Databases & Storage:** PostgreSQL, MongoDB, MySQL, MSSQL
- **Architecture & Practices:** Microservices Architecture, Release Engineering, TDD/Jest/pytest, System Design, Technical Debt Remediation, Agile/Scrum Leadership

PROFESSIONAL EXPERIENCE

Senior Software Engineer / Engineering Lead | [Medial Health LLC \(2025 – Present\)](#)

- Lead full-stack engineering initiatives and architectural decisions for a digital health platform supporting patient intake and clinical workflow automation using React, TypeScript, NestJS, and REST APIs.
- Establish high engineering standards, conduct peer code reviews, mentor software engineers, and translate complex healthcare requirements into scalable, compliant production software.
- Architect and integrate production AI document automation pipelines (FastAPI/Ollama), enabling automated intake extraction and hybrid local/cloud model fallback routing.
- Drive end-to-end project delivery, coordinating sprint planning, risk management, and cloud deployments on GCP and Docker.

Technologies: *TypeScript, React, NestJS, Python, FastAPI, PostgreSQL, Docker, GCP, Git*

Senior Software Engineer / Technical Lead | [Yello Media Group Ltd. \(2022 – 2025\)](#)

- Directed engineering delivery for high-traffic digital platforms, designing Python-based ETL services, REST APIs, and automated reporting microservices.
- Mentored and coached junior software developers, improving team code quality, velocity, and adoption of modern testing and CI/CD practices.
- Architected and deployed Docker and Kubernetes-based microservices, improving platform scalability and operational resilience under peak traffic.
- Led legacy modernization of enterprise C# applications, establishing modular service boundaries and secure API integrations.
- Partnered directly with cross-functional business stakeholders to evaluate technical dependencies, remove project bottlenecks, and deliver milestones on schedule.

Technologies: *Python, C#, Docker, Kubernetes, React, SQL, Azure, ETL Pipelines, REST APIs*

Senior Applications Developer | [Telecommunications Services of Trinidad and Tobago \(TSTT\) \(2020 – 2022\)](#)

- Architected and led the technical implementation of a multi-tenant SaaS procurement platform for the Government of Trinidad and Tobago.
- Designed backend REST APIs, compliance tracking modules, and audit log infrastructure meeting strict telecom security and governance standards.
- Mentored and provided technical guidance to a team of 4 junior software developers across backend design, database optimization, and Git workflows.

Technologies: *PHP, Laravel, MySQL, REST APIs, SaaS Architecture, Linux, Git*

IT Analyst / Programmer | [Judiciary of the Republic of Trinidad and Tobago \(2018 – 2020\)](#)

- Developed API-driven enterprise integrations supporting digital court management and inter-agency data exchange.
- Refactored legacy Java applications to improve system uptime, throughput, and long-term maintainability.
- Trained and onboarded technical trainees (OJTs) and provided production support for critical judicial operations.

Technologies: *Java, Spring Boot, JHipster, MySQL, REST APIs, Linux*

Business Systems Analyst – BI & Enterprise Integration | [Petroleum Company of Trinidad and Tobago \(2012 – 2018\)](#)

- Delivered enterprise business intelligence, and operational analytics solutions supporting executive decision-making.
- Led system integration initiatives across business units, modernizing legacy reporting tools and reducing IT operational overhead.

Technologies: *Oracle, C#, SharePoint, Enterprise Integration, Power BI*

FEATURED AI PROJECTS & PRODUCTION ARCHITECTURE

- **Research Navigator ([discover.research-navigator.ai](#)):** Conceived, architected, and deployed a multi-agent AI validation engine serving as an 'Active Validation Coach' for tech startups. Engineered a hybrid architecture combining a Vue 3 real-time dashboard, a high-performance Go proxy for async agent streaming, and a Python AI brain implementing 'LLM-as-a-Judge' score auditing and a strict 'Brutal Gatekeeper' evidence verifier.
- **Enterprise AI Document & Newsletter Herald:** Built an automated document intelligence and distribution platform. Designed a resilient multi-LLM router (local Ollama fallback to cloud Groq/Claude), automated PDF/DOCX text extraction and compression, and built a database-backed agent bridge (Neon PostgreSQL) for WhatsApp/Signal automated review alerts and one-click scheduling.

EDUCATION & PROFESSIONAL CERTIFICATIONS

MSc in Computer Science – Queen Mary, University of London (2016)

BSc in Information Technology – University of the West Indies, St. Augustine (2011)

- IBM AI Engineering Professional Certificate – IBM (2025)
- Google Project Management Professional Certificate – Google (2025)
- Microsoft Certified Python Developer – Microsoft (2025)
- Business Certificate in Digital Marketing & Strategy – Arthur Lok Jack GSB (2018)