

Abhinav George Basil

SOFTWARE ENGINEER

Kuala Lumpur, Malaysia

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Summary

Backend Software Engineer with 5+ years of experience designing and scaling distributed systems handling millions of transactions monthly. Proven impact driving revenue growth and reliability by architecting critical services, leading RFCs, and setting engineering standards, with additional breadth in ML and full-stack development.

Experience

MoneyLion (acquired by Gen Digital)

Kuala Lumpur, Malaysia

SOFTWARE ENGINEER (BACKEND)

February 2023 – Present

- **Delivered investing and crypto features, boosting engagement 80%, users 25%, and transactions 40%** by engineering scalable backend microservices (Java, Spring Boot, Kafka, AWS, PostgreSQL, DataDog).
- **Orchestrated ownership transfer of a revenue-critical micro-investing service**, hosting RFCs and re-architecting with Kafka and new schemas, modernizing the system and driving **15–20% revenue growth**.
- **Architected distributed payment workflows handling 50K+ daily (1.5M+ monthly) transactions** with Kafka and AWS SQS, ensuring high availability, fault tolerance, and enabling new revenue features.
- **Scaled platform for MrBeast’s global campaign** by load testing, optimizing caching, and removing bottlenecks, cutting latency and increasing throughput under massive traffic.
- Proposed and delivered gamification features with product managers and stakeholders, designing event-driven services improving retention significantly.
- Championed TDD, shift-left testing, and Datadog observability, while modernizing CI/CD (GitHub Actions) and upgrading the tech stack (Java/Spring Boot, Kafka, Istio), **cutting deployment time 40%, reducing infra costs 25%, and boosting security..**
- Mentored three engineers, accelerating onboarding by 30%, and led security initiatives that reduced open security tickets by 70%.
- Improved an ML-driven risk calculation service in Python, updating logic for new requirements and ensuring high data integrity for portfolio recommendations.

Total IT Global

Kuala Lumpur, Malaysia

SOFTWARE ENGINEER (BACKEND & ML)

August 2022 – January 2023

- **Developed and productionized an NLP-driven resume parser** with Spacy, improving parsing accuracy by 20% and integrating into a production ATS platform.
- Built backend services with FastAPI, NestJS, Django REST and MySQL, while designing React/JavaScript frontend components, reducing rollout time by 25%.
- Automated data pipelines with Python & Pandas, and led an annotation team with precision/recall tracking, ensuring scalable training data for ML models.

Wavelet Solutions

Subang Jaya, Malaysia

SOFTWARE ENGINEER (FULL-STACK, CONTRACT)

May 2022 – August 2022

- **Improved Akaun platform performance by 20%** through backend optimization and refactoring, enhancing scalability and reliability.
- **Contributed to a 15% revenue increase** by developing and integrating new features aligned with client needs.

Wavelet Solutions

Subang Jaya, Malaysia

SOFTWARE ENGINEER INTERN (BACKEND)

June 2021 – September 2021

- Built and deployed REST APIs with Java Spring Boot and PostgreSQL, powering applications used by thousands of businesses.
- Optimized SQL queries with indexing and partitioning, improving database performance by 30%.

University of Nottingham

Semenyih, Malaysia

MACHINE LEARNING RESEARCH INTERN

June 2021 – September 2021

- Improved ML model accuracy by 15% and reduced processing time by 20% using Scikit-learn, PyTorch, and Pandas, with deployment through FastAPI.

Education

University of Nottingham

Semenyih, Malaysia

BSc (HONS) COMPUTER SCIENCE

September 2019 - July 2022

- Graduated with First Class Honours and received the High Achiever’s Scholarship for academic merit, including a First Class Final Year Project.

Projects

Increasing Diversity & Preventing Filter Bubbles in Recommendation Systems

SciKit-Learn, Python, Surprise

AVAILABLE ON GITHUB

Designed novel recommendation algorithms by creating and evaluating recommendation systems using movie/book datasets for a final year project.

Skills

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| Backend & APIs | Java, Go, Python, Node.js, Spring Boot, Django, Express, FastAPI, Kafka, SQS, DataDog, Microservices, REST APIs, Event-Driven Systems |
| Cloud / DevOps | AWS (RDS, ECS, EKS, IAM, MSK), ArgoCD, Kubernetes, Docker, Terraform, GitHub Actions, CI/CD |
| Databases | MongoDB, PostgreSQL, MariaDB, MySQL, Redis, Elasticsearch, AWS Timestream |
| AI / Data | Spacy, Pandas, NumPy, Scikit-learn, PyTorch, Tensorflow, Weka, Doccano |
| Frontend | JavaScript, TypeScript, HTML, CSS, React, Angular, Flutter, Dart, Bootstrap |

Honors & Awards

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| 2021 | 1st Runner Up , IEM Web Design Competition | Suria Labs |
| 2021 | 2nd Runner Up , Nott-A-Thon: Chatbot Design Competition | IET UNM |