

# Faidhi Hakim Mohd Nordin

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## WORK EXPERIENCES

### Bank Negara Malaysia, Associate Software Engineer

KL, Malaysia | Apr 24-Ongoing

- **Azure Generative AI**
  - Managed all six Teams bots as a lead frontend developer
  - Built Sharepoint Webhook for automatic ingestion to Azure AI Search using Azure Functions
  - Utilizes CosmosDB for audit trails and error logs
  - Implemented Microsoft Defender Security best practices
  - Setup App Gateway with Route53 for DNS Resolver for public url
- **AWS Generative AI**
  - Led the team for frontend using NextJS framework
  - Utilizes serverless architecture (AWS Lambda) for microservice function for better distribution of load
  - Configured AWS API Gateway Webhook to maintain consistent connection with frontend and backend
  - Led and taught the frontend team for Docker and Git best practices
- **BNM Call Tree** – Assisted in BNM Disaster Call Tree using Power Apps development
- **aNota Teams Bot**
  - Sole developer using Bot Framework in Teams using Typescript
  - Developed the infrastructure hands-on ranging from P2S VPN to Azure App Service
  - Implemented complex UI in teams bot with advanced adaptive cards and waterfall dialogs
- **Teams Company Communicator** – configured Azure resources solely for internal teams communication

### Bank Negara Malaysia, Digital Graduate Analyst

KL, Malaysia | Sep 22-Mar 24

- **Social Media Automation**
  - Led the team for frontend and backend automation that saves 98% excel work
  - Used python streamlit and webscraping to get data from Twitter, Facebook, Instagram, LinkedIn, Youtube
- **Generative AI** – Led the team for frontend work on streamlit, Teams app and NextJS website
- **Follow the Money**
  - Analyzed fraud patterns on Gephi using various metrics like page-rank
  - Trained multiple algorithms on graph network on transactions to detect fraud pattern
  - Added a machine detection layer to human detection system in fraud detection
- **Vendor Assessment System (VAS)**
  - Added user features, improved the UI and integrated two external users system
  - Developed PHP Laravel for backend
- **MyStats Paper (Rising Land Temperature)**
  - Led the team for research and presented at the conference
  - Utilized GoogleEarth Engine using JS to do data analytics

### Telus International AI, Data Analyst

Online in UK | Aug 22

- Analyzed map queries data based on four aspects – relevance, name, address, pin
- Scored 100% in first assessment at first attempt

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## CERTIFICATIONS

- [Professional Scrum Developer I \(PSD II\)](#)
- [Learn CI CD](#)
- [IBM Data Science Specialization](#)
- [Learn GO](#)

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## ACTIVITIES

### Freelancer

Sep 24-Ongoing

- Built traveling agency webapp for client using stack - NextJS + Prisma + Typescript + AuthJS + Postgresql + TailwindCSS + Shadcn
- Implemented caching efficiently using SSG + SSR
- Built db schemas for staff, guests, admin login
- Configured authentication using JWT in AuthJS

## Hackathon Microsoft AI Tinkerer

- Built website to display changes and assessing the impact in two pdfs calling backend API GPT o1 preview
- Led frontend using ReactJS + Shadcn
- Handled state management using advanced hooks like useTransition, useMemo for efficient client interaction
- Utilized react pdf viewer to highlight changes in pdf

## Own Projects

### 1. Golang Backend

- Built a simple Gin API server

### 2. NestJS Backend

- Developed a simple NestJS server
- Implemented piping, controllers, services and modules
- Configured authentication using Postgresql DB and TypeORM

### 3. Kali Linux Ethical Hacking 101

- How to secure website and prevent SQL injection and XSS attack
- Uses Wireshark to sniff network packets

### 4. Flutter Complete Development Bootcamp

### 5. VueJS Bootcamp

### 6. Google Cloud Bootcamp

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## EDUCATION

MSc Financial Engineering, **WorldQuant University (New Orleans)**

Remote | 2022-2024

- Scored 81%

BSc Actuarial Science, **London School of Economics (LSE)**

London, UK | 2019-2022

- 2:1. Relevant modules: Finance, Statistics, Economics, Actuarial, Data
- **R Projects:** *Loan Amortization Schedule*: broke down the interest and principal to a table using for loop  
*Pension Premium*: conceptualised the survival table with the current interest rate to calculate expected present value
- **Publications:** [Python Starter Book](#), 'Malaysia Family' from A Social Perspective Paper, Github: [Faidhi066](#)

Kolej MARA Seremban (KMS)

N. Sembilan, Malaysia | 2017-2019

- A-Level: Mathematics (**A\***), Economics (**A**), Further Mathematics (**B**), Accounting (**A\***)
- Obtained Principal's Award for three consecutive semester exams based on grade points

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## ACTIVITIES

Winner of LSE Practitioners Challenge (LSTM VS GARCH)



Jan 22-Mar 22

- Guided a team of four to investigate the best stock model using LSTM and GARCH for Aviva Insurance Company
- Added ARMA and AR model to improve the GARCH model and used VAR for metrics comparison, which improved the model by 5% accuracy

Professional Certificate in Data Science, IBM



Jul 20-Jul 21

- Average score: 92.1%
- Implemented the k-nearest neighbor algorithm to determine strategic locations to build a Chinese restaurant in Toronto
- Webscraped Yahoo Finance using BeautifulSoup for stock analysis and visualized in an interactive dashboard using the Dash plugin

LSE Research Your Researcher (Functional Graphical Model)

Jan 21-Mar 21

- Prepared the R code for covariance matrix from ECG data
- Presented the paper to students and professors in LaTeX Overleaf slides

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**Programming Languages** – Python, NodeJS, TypeScript, Laravel, Golang, R

**Interest** – Hacking, Mobile & Web Development, AI, Cloud Technologies