Nik Hamidi

Software Engineer | Kuala Lumpur

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Education

International Islamic University Malaysia   Jun 2021
Bachelor of Science in Information Technology (Graduated with Honors)

Technical Skills

Programming Languages: Python, JavaScript, Dart, SQL   **Frameworks**: Django, Flutter, FastAPI, Node.js
Databases: MySQL, MongoDB, Firebase   **Tools**: Docker, Git, GitHub, Postman
Cloud: Azure, Azure AI Search, MongoDB Atlas   **Other**: RESTful APIs, JWT Authentication, OOP, TDD

Professional Experience

Backend Engineer
Avanade / Oxydata Software (Contract), Kuala Lumpu   Nov 2024 - May 2025
- Developed and deployed scalable RESTful APIs using FastAPI to support RAG (Read-Act-Generate) process in insurance customer service applications
- Designed secure JWT-based authentication systems to protect sensitive customer data and ensure compliance with industry standards
- Implemented modular project architectures and efficient routing to support seamless integration with third-party systems
- Integrated MongoDB with Beanie ODM to manage and query customer and claims data effectively
- Utilized advanced PDF extraction algorithms to digitize and analyze policy documents, claims forms, and other customer records
- Enhanced RAG process with Azure AI Search for intelligent data retrieval, enabling faster customer query resolution
- Developed background tasks to process long-running operations like document parsing and data validation
- Customized API responses to align with specific insurance workflow needs

Backend Engineer
Lemonsky Animation Studio, Petaling Jaya   Aug 2023 - July 2024
- Developed and maintained custom pipeline software for Lemon Sky, a premier CGI art studio in Southeast Asia, to streamline artists' daily tasks and improve workflow efficiency
- Utilized Django, MySQL, and Dockerization technologies to build and enhance the backend architecture of the studio's internal tools
- Implemented software upgrades and maintenance procedures to ensure optimal performance of the pipeline software across multiple projects
- Managed in-house server infrastructure, including production and UAT environments, to support seamless development, testing, and deployment processes
- Collaborated with artists and production teams to identify workflow bottlenecks and implement software solutions that improved overall productivity

Junior Backend Engineer
Tigerlab, Petaling Jaya   May 2022 - July 2023
- Developed custom widgets using Flutter and implemented features within existing Django sites
- Created web applications using Django Framework (Python + Postgres)
- Participated in agile/scrum methodology for daily productivity
- Worked with Django Architecture including model serializer, django templating, and custom settings

Software Developer
Aisara, Kuala Lumpur   Feb 2021 - Apr 2022
- Built stock market prediction models using Python and Node.js
- Developed mobile applications using Flutter Framework
- Worked with AI solutions for Oil and Gas industry

- Implemented AI models in mobile applications

Projects

RAG Customer Service CMS

Avanade, Kuala Lumpur   Nov 2024 - Present
- Developed customer service CMS using FastAPI, Python, MongoDB, and Axure Cognitive Search
- Implemented intelligent data retrieval system for customer service representatives
- Created API endpoints for document processing and query resolution

Animation Pipeline Software

Lemon Sky, Shah Alam   Aug 2023 - July 2024
- Maintained and upgraded in-house pipeline software for CGI art studio
- Managed Dockerized backend architecture for production and UAT environments
- Implemented new features and improvements to existing software

Insurtech Automation

Tigerlab, Petaling Jaya   May 2022 - July 2023
- Automated insurance processes using Django and Python
- Developed custom solutions for European insurance companies
- Implemented workflow automation and document processing

Stock Market Prediction Web App

Aisara, Kuala Lumpur   Feb 2021 - Apr 2022
- Created web application for stock market prediction
- Integrated AI models with mobile applications
- Developed backend using Django and Python