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Summary

Results-focused full-stack developer with a BEng (Hons) in Software Engineering and a Higher National Diploma in Computing. Demonstrated experience delivering end-to-end web, AI, and mobile solutions using technologies such as Python, React, C#, Java and modern frameworks. Strong foundation in software architecture, agile development, and machine learning. Recognized for applying technical skills to solve real-world problems and for contributing to both independent and collaborative projects in fast-paced environments. Currently seeking opportunities to apply my expertise within forward-thinking software teams.

Projects

VENOMGUARD AI | *Python, React, MySQL, TensorFlow, OpenCV, NLP*

AI-powered emergency platform for venomous species detection and medical response.

- Built an AI-powered emergency response platform that identifies venomous species using image recognition and symptom analysis.
- Integrated NLP, computer vision, and geo-tracking to suggest species-specific medical guidance and nearest hospitals.
- Improved public safety through real-time decision support and accessible UX.

TRADE-SENSE AI | *Python, Flask, yFinance, Q-learning, React, Tailwind CSS, Recharts*

AI trading assistant that predicts BUY/SELL/HOLD signals using reinforcement learning.

- Developed an AI trading assistant that offers BUY/SELL/HOLD signals using a hybrid model of technical indicators and reinforcement learning.
- Built interactive dashboards with real-time charts and insights for intuitive portfolio analysis.
- Implemented a self-learning Q-learning agent to simulate dynamic market behavior.

GASBYGAS | *Next.js, React Native, Tailwind CSS, MySQL*

Gas distribution system with mobile integration for consumer requests and outlet operations.

- Designed a gas distribution management system for HQ and outlets with integrated consumer mobile app.
- Enabled real-time request handling and scheduling via app-based ordering and delivery coordination.
- Built scalable backend infrastructure for multi-branch operations.

.BLOG (Blogging Platform) | *Python, Flask, HTML, CSS*

Minimalist blogging platform with post creation, editing, and image upload features.

- Developed a minimalist blogging platform with CRUD functionality for posts and image uploads.
- Implemented secure routing and session management.

MALAYKART | *React, Tailwind CSS*

E-commerce platform tailored for Malaysian product exports.

- Built an e-commerce frontend for Malaysian products with reusable components and responsive layout.
- Optimized user experience with clean product cards, filtering, and cart flows.

BOOK-HEAVEN | *C# (Layered Architecture)*

Bookstore management system with integrated POS features.

- Created a layered-architecture bookstore management system with integrated POS, inventory, and billing.
- Enabled modular scaling and separation of concerns across data, business, and UI layers.

ROYAL GEMS | *HTML, CSS, JavaScript*

Official business website showcasing premium gem collections and services.

- Developed a professional business website with service overview, image gallery, and contact form.
- Delivered a responsive, SEO-friendly layout for client deployment.

Professional Experience

Freelance Full-Stack Developer

2023 – Present

Remote / Global Clients

- Delivered over 10 custom web applications for international clients across sectors including fintech, e-commerce, and AI.
- Specialized in building responsive frontend interfaces using **React**, **TypeScript**, **Tailwind CSS**, and integrating backends with **Node.js** and **Python Flask**.
- Worked closely with UX designers using **Figma**, converting wireframes into performant, accessible user interfaces.
- Implemented RESTful API integrations, handled full-cycle deployments on **Vercel**, and optimized Lighthouse performance scores.
- Demonstrated agile collaboration and proactive problem-solving in fast-paced client environments.

Technical Skills

Languages: Python, C#, JavaScript, TypeScript, Java, R, HTML, CSS, SQL

Frameworks & Libraries: React.js, Next.js, Angular, React Native, Flask, .NET, Node.js, Tailwind CSS, Recharts

AI/ML Tools: TensorFlow, PyTorch, Scikit-learn, OpenCV, Natural Language Toolkit (NLTK), Reinforcement Learning, Deep Learning

Databases: MySQL, MongoDB, Firebase

Web/UI Development: Responsive Design, UI/UX Design Principles, Figma, Component-Based Architecture, SEO Optimization

Dev Tools & Platforms: Git, GitHub, Vercel, Postman, Docker, VS Code, NetBeans, Visual Studio, Jupyter Notebook, Google Colab

Concepts: Object-Oriented Programming (OOP), Data Structures and Algorithms, Design Patterns, RESTful API Design, Software Testing, Agile Methodology

Education

London Metropolitan University

2024 February - 2025 May

BEng (Hons) in Software Engineering (TOP UP)

- Pursued a comprehensive curriculum covering full-stack development, AI, software architecture, and project management.
- Built hands-on projects using Python, React, .NET, and Java applying industry practices and agile methodologies.
- Led the final year research project on AI-driven Venomous Species Detection, enhancing skills in machine learning and data analysis.

ESOFT Metro Campus

2022 October - 2024 February

BTEC HND in Computing (Software Engineering)

- Acquired core skills in software development, database management, and object-oriented programming.
- Built multiple end-to-end web and desktop apps using HTML, CSS, PHP, Python, and Java.
- Practiced agile workflows and collaborative development across coursework and group projects.

Lyceum International School

2019 February - 2022 February

GCE Advanced Level - Physical Science

- Subjects: Combined Mathematics, Physics, Chemistry
- Developed strong analytical thinking and problem-solving foundation.

Reference

- **Rifky Azad**
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