Iwyn Joseph

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UAE Golden Visa Holder

Profile

Computer Science graduate majoring in Data Science, with hands-on experience in analytics, automation, and scalable solutions across diverse industries, including supply chain and procurement analytics. Skilled in Python, SQL, and Excel, with a proven record of transforming big data into operational insights. Experienced in collaborating with cross-functional teams, innovating process automation, and driving efficiency in fast-paced, high-growth environments.

Education

Monash University Malaysia — *Subang Jaya, Malaysia*
Bachelor of Computer Science (Major in Data Science) — *Oct 2021 – Jun 2025*
High Achievers Merit Scholarship Recipient

Our Own English High School — *Sharjah, UAE*
High School Diploma (CBSE) — *Graduated: 2021*
Final Grade: 92%

Technical Skills

Programming: Python, R, SQL, Java, Bash, HTML/CSS, JavaScript, JSON

Cloud Platforms: Google Cloud Platform, SAP, Salesforce, Firebase, Amazon Redshift

Technologies/Frameworks: Tableau, Power BI, Power Query, Android Studio, RStudio, Excel, PyCharm, Visual Studio, Anaconda, Jupyter Notebook, Cygwin, React.js, Google Analytics, Pixel Tracking, Matplotlib, MongoDB, Apache Spark, Kafka

Experience

Estée Lauder Companies — *Nov 2024 – Mar 2025*
Procurement Reporting Analytics Intern — *Kuala Lumpur, Malaysia*

- Automated procurement reporting: Developed and automated end-to-end procurement data workflows using Python and SQL, reducing manual reporting time by over 50% and directly improving efficiency for supply chain operations.

- Data-driven insights: Designed and implemented interactive Power BI dashboards to visualize procurement and supply chain KPIs, enhancing decision-making for four regional teams.

- Process optimization: Established scalable data models and DAX measures in Power BI, supporting real-time analytics and minimizing process bottlenecks.

- Cross-functional collaboration: Worked closely with global IT and supply chain teams to align analytics tools with operational requirements, driving the rollout of best practices across regions.

- Stakeholder communication: Authored user guides and documented SOPs for analytics tools, ensuring clear knowledge transfer and supporting business users in adopting automated solutions.

Cambridge Innovation Solutions (CIS) — *June 2024 – Sep 2024*
Machine Learning and Full Stack Developer Intern — *Remote*

- Developed a personalized career recommendation engine by integrating TensorFlow.js with Universal Sentence Encoder to compute semantic similarity between user responses and career data, enabling dynamic path suggestions.

- Built a full-stack React application with protected routes, Firebase Authentication, Firestore, and Realtime Database; implemented interactive components like dashboards, chatbot forms, and exportable PDF recommendations.

- Engineered scalable frontend logic using React Router v6 and context-based state management, while optimizing data flow through structured Firebase data models and modular UI design with styled-components.

Art Dubai — *Dec 2023 – Mar 2024*
Digital Product Assistant — *Dubai, UAE*

- Led user testing sessions for both mobile and web platforms, identifying and resolving critical usability issues ahead of event launches.

- Collaborated with development and media teams to implement Google Analytics pixel tracking, monitor campaign performance, and optimize digital platform functionality.

- Provided technical support to users, resolving over 100 app and site-related queries during the fair to ensure a seamless digital experience.

App Assistant Trainee

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Jan 2023 – Mar 2023
Dubai, UAE

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- Created and refined UI/UX mock-ups using Figma, contributing to feature rollouts and interface enhancements.
- Managed basic WordPress content updates and assisted with identifying and reporting bugs to developers.
- Resolved user queries during the Art Dubai event and escalated technical issues to the appropriate support teams.
- Documented team communications and helped organize internal resources to support app development workflows.

Projects

Reversible Watermarking Techniques for Encrypted Images

- Developed algorithms for reversible watermarking in encrypted images, ensuring data integrity.
- Implemented two watermarking techniques, optimizing image recovery and minimizing post-decryption distortion.
- Created a GUI for applying watermarking techniques, decryption, and visualizing metrics like PSNR and BER.
- Conducted performance evaluation, analyzing robustness against various attacks and image formats.

Intelligent Construction Chatbot for Client Website

- Developed and deployed an AI-powered chatbot for a construction company using **Langchain** and **OpenAI API**, enabling 24/7 intelligent query handling on the client's website.
- Scraped and structured website content, indexed it into a custom **vector database**, and implemented semantic search to retrieve relevant answers through prompt-engineered queries.
- Integrated the chatbot with the client's website, significantly improving user interaction and boosting engagement rate through seamless, conversational information delivery.

AI Pathfinding and Adversarial Agent Development

- Implemented A* search algorithm to optimize pathfinding in a game environment, enhancing navigation through dynamic obstacles.
- Developed adversarial agents using Minimax with Alpha-Beta Pruning to manage decision-making against competitive game elements.
- Designed heuristics to improve performance in complex scenarios, balancing efficiency and computational constraints.

Automated Awareness Safety System (AWAS) – Real-Time Speed Violation Analytics

- Developed a real-time streaming analytics application simulating Malaysia's Automated Awareness Safety System (AWAS), using Python, Apache Kafka, and MongoDB.
- Built robust data pipelines to process and join high-volume camera sensor data, enabling detection of both instantaneous and average speed violations across highway segments.
- Automated violation detection and alert generation by implementing parameterized business rules and scalable state management, supporting operational efficiency.
- Designed dynamic data visualizations to highlight speed trends, violations, and operational bottlenecks.

Extracurricular

Dubai Design District, Dubai, UAE

- Volunteer, Dubai Design Week, 2019: Managed event logistics, tracked event-related information, and evaluated outcomes for future improvements.

Art Dubai, Dubai, UAE

- Social Media Assistant Volunteer, Dubai Design Week, Nov 2021: Streamlined volunteer tasks, coordinated media advertising, worked with Last Minute Production, and captured, edited, and pitched visual content to editors.

Monash University Student Association (MUSA):

- Vice-Captain, Manticore House (Jan 2023 - Dec 2023): Played a key role in managing the committee and coordinating teams for the Monash Cup 2023.
- MUISS Media Office Bearer (Jan 2023 - Oct 2023): Oversaw media publications, managed the international student magazine, and developed the new MUISS website.