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PROFESSIONAL SUMMARY

Results-driven Master of Information Technology graduate with a strong record of building and optimizing advanced, data-driven systems in fast-paced, high-pressure environments. Experienced in full-stack development, quantitative analysis, and automation—skilled at turning complex data into actionable insights and delivering robust technology solutions under tight deadlines. Proven ability to thrive in competitive, results-oriented teams through strong problem-solving, rapid learning, and effective communication. Eager to contribute technical, analytical, and strategic thinking to world-class trading technology and research teams

EDUCATION

Master Of Information Technology: Information Technology, 07/2023 – 11/2024
University of Auckland - Auckland, New Zealand

Bachelor's degree: Computer Science and Information Technology and Management, 07/2020 – 07/2023
University of Auckland - Auckland, New Zealand

SKILLS

- **Workplace & Collaboration Tools:** Microsoft 365 (basic experience: Word, Excel, PowerPoint, Teams), Power BI, Tableau
- **Technical Problem Solving:** Proven ability to analyze, design, and deliver robust solutions to complex technical problems under tight deadlines and changing requirements.
- **Quantitative Analysis & Data Engineering:** Advanced skills in SQL (complex queries, window functions, CTEs), Python (data analysis, automation, statistical modeling), and data visualization tools (Power BI, Tableau, Matplotlib).
- **Full-Stack & Systems Development:** Extensive experience building, optimizing, and deploying scalable applications using React.js, Next.js, MERN stack, SwiftUI, and ASP.NET Core. Developed real-time features with Socket.IO, RabbitMQ, and Redis.
- **Cloud & DevOps:** Hands-on experience with AWS, Firebase, Vercel, CI/CD pipelines, and automated deployments to ensure high-availability, low-latency systems.
- **API & Backend Design:** Designed and implemented RESTful APIs, secure authentication and authorization (JWT, ASP.NET Identity), and scalable data models for high-throughput applications.
- **Big Data & Forecasting:** Led big data mining projects, transforming large, complex datasets into actionable business and trading insights. Developed revenue forecasting models and inventory optimization algorithms using statistical analysis.
- **Automation & Workflow Optimization:** Automated data pipelines, ETL processes, and recurring analytical tasks to drive operational efficiency and real-time insights.
- **Agile Teamwork & Communication:** Experienced in Agile methodologies, pair programming, peer code review, and cross-functional stakeholder engagement. Excellent written and verbal communicator in English and Khmer; conversational Mandarin and Cantonese.
- **Adaptability & Growth Mindset:** Quick to learn new technologies, frameworks, and concepts. Demonstrated ability to perform in high-pressure, high-stakes environments and continuously improve through feedback and iteration.
- **Multicultural Perspective:** Strong ability to work effectively in diverse, international teams and across different business domains.

Work Experience

Full Stack Developer (MediMate Project)

Internship, COMPSCI 778, The University of Auckland | Auckland, NZ | 07/2024 – 11/2024

- Developed an innovative SwiftUI iOS application, enabling users to effortlessly search for medications using text input or AI-driven image recognition.
- Integrated OpenAI's advanced visual recognition (CLIP model), significantly streamlining medication identification through real-time image processing and database matching.
- Implemented robust product comparison features, allowing users to simultaneously evaluate up to five medications side-by-side, enhancing decision-making accuracy.
- Contributed to backend service integration, ensuring seamless user experience through effective communication with Spring Boot APIs, Redis caching, and RabbitMQ for real-time notifications.
- Maintained and validated extensive product and pricing datasets, achieving a 99% accuracy rate to guarantee reliable user information.

Full Stack Developer (Music Streaming Platform)

Project, COMPSCI 732, The University of Auckland | Auckland, NZ | 02/2024 – 07/2024

- Built a full-stack music streaming and social application using the MERN stack (MongoDB, Express.js, React, Node.js), designed to enrich traditional music experiences with community-driven interactions.
- Integrated the Spotify Web API to deliver seamless music playback, artist exploration, personalized playlists, and robust search capabilities.
- Developed real-time social features with Socket.IO, enabling group chats, user discussions, artist-following, and social interaction around music content.
- Leveraged OpenAI API for intelligent chatbot interactions, providing personalized music recommendations and detailed artist information.
- Implemented centralized state management using Redux, optimized frontend styling with Tailwind CSS, and managed secure authentication and user state across the application

Academic Project – Data Mining

INFOSYS 722: Big Data and Data Mining, University of Auckland | 03/2024 – 06/2024

- Executed a big data analytics project using IBM SPSS and Python, transforming complex datasets into actionable insights.
- Led team communication and document sharing using Microsoft Teams and OneDrive (basic experience).
- Applied automation and workflow optimization techniques to streamline project deliverables.
- Achieved an A+ grade, demonstrating strong proficiency in integrating multiple analytics platforms for real-world impact.

Backend Developer (Capstone Project)

University of Auckland | Auckland, NZ | 01/2023 – 07/2023

- Developed a robust backend using ASP.NET Core 8.0, implementing a layered architecture to enhance maintainability and scalability.
- Built secure authentication and authorization mechanisms utilizing ASP.NET Identity and JWT tokens, ensuring role-based access control.
- Designed and managed data models with Entity Framework Core, optimizing database operations and ensuring data integrity.
- Utilized digital collaboration tools for agile teamwork, documentation, and stakeholder communication.
- Facilitated advanced features for project management, including collaboration, bidding, and real-time notifications.

PERSONAL PROJECT

Full-Stack Developer (Menu System for Restaurant) | Personal Project, Apr 2025

- **Designed and delivered a cloud-native digital menu system**, building both backend services and responsive front-end in React and Firebase, deployed via CI/CD on Vercel.
- **Owned the end-to-end product lifecycle:** from requirements gathering, architecture, and implementation to automated deployment and user feedback integration.
- **Collaborated in an agile, team-based environment** with peer reviews and rapid iteration, emphasizing code quality and continuous improvement.
- Implemented multilingual, multi-currency support and real-time data sync for scalable, accessible restaurant management.

VOLUNTEER EXPERIENCE

Secretary

01/2022 – 12/2022

Auckland UNI Khmer Society – Auckland, New Zealand

- Assisted in organizing special events and programs to foster cultural engagement.
- Communicated effectively with members and visitors, providing information about the society and its initiatives.
- Contributed to the smooth running of events by supporting planning and coordination efforts.
- Collaborated with a team to achieve high levels of productivity and event success.
- Tracked and reconciled event budgets, processed invoices, and maintained accurate financial records for society events.

REFERENCE

REFERENCE AVAILABLE ON REQUEST