Oscar Nguyen

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A data-driven professional with expertise in ERP consulting, machine learning and full-stack development. I am enthusiastic about leveraging these skills to address business challenges and enhance operational processes with cutting-edge technology. My aspiration is to join a forward-thinking organisation where I can continue to expand my skills and make a meaningful contribution.

EDUCATION

Master of Data Science   **July 2019 – July 2021**
Macquarie University, North Ryde, NSW

- Weighted Average Mark: 82 (Distinction).
- Awarded Letter of Commendation for High Distinction in Machine Learning, Mining Unstructured Data, Applications of Data Science and Enterprise Application Integration courses.
- Awarded 1st winner of AI-Enabled Banking Hackathon 2020 organising by Big Data Society, Department of Computing.
- Macquarie University ASEAN Scholarship.

Bachelor of Business Information System   **Oct 2013 – Oct 2018**
RMIT University, Ho Chi Minh City, Vietnam

- High Distinction grades in Developing Mobility Solutions and Information Systems Development.
- Vice President of RMIT Business Information System Club, leading the sponsorship team in an academic competition that attracted 50 participants from 5 major universities.

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer Intern   **Mar 2024 – Jun 2024**
Genius IT Solutions, Sydney, NSW

- Contributed to the development of a customer relationship management (CRM) Web Application project.
- Developed 3 pivotal features, including comprehensive unit testing functions, for a full-stack application built with NextJS, TypeScript, TailwindCSS, Drizzle ORM, Turso database and Stripe, ensuring robust functionality and adherence to best practices.
- Conducted comprehensive requirement gathering sessions with key stakeholders, including product managers and end-users, to capture and prioritize 10+ functional and non-functional requirements for a web project.
- Design system process flow with UML flowcharts to visualize complex processes, enabling cross-team alignment.

Full-Stack Software Engineer Trainee   **May 2023 – Oct 2023**
Nology, Sydney, NSW

- Completed an intensive 12-week training program on full-stack website development.
- Deployed 5+ projects using React with Javascript and Typescript, Java and MySQL.
- Coordinated with 2 senior software engineers on backend development for a client project, which involved a student metrics application using NestJS and Typescript.
- Enhanced CI/CD pipeline with Playwright end-to-end testing framework.
- Enriched data viewing requests by implementing 2 new HTTP requests using the MySQL virtual entities method.

Data Scientist Intern   **Feb 2021 – Jun 2021**
Truuth, Sydney, NSW

- Utilised Python and Mediapipe library to extend Truuth facekey biometrics from 128 to 468 3D face coordinates, enhancing the scope of potential facial verification tests.

- Compiled 4 comprehensive documents outlining current implementations and potential future developments on internal Confluence platform.
- Contributed to a team of 5 in Scrum Agile environment to create a new app UX demo.
- Worked closely with a senior data scientist to boost the accuracy of Truuth MVP1 liveness fusion model, which was based on Mediapipe solution, from 65% to 75%.

ERP Application Consultant   **Feb 2016 – Jan 2017**
TRG International, Ho Chi Minh City, Vietnam
- Worked in a team of 5 to deploy an ERP project for a major shoe manufacturing corporation in Vietnam, including the installation of ERP and database environments on the client's server.
- Engaged directly with client's CFO to collect and analyse requirements, proposed ERP processes for the Finance module, and developed functional processes in accordance with Vietnamese Accounting Standards.
- Conducted user acceptance testing (UAT) phase, which included 5+ end-user training sessions and a detailed 10-page user guideline.
- Proposed client-tailored solutions to overcome system limitation, utilising Excel Macro.
- Conducted 2 product pitching using Microsoft PowerBI.

RELEVANT PROJECTS

Employee Creator Web App   **Dec 2023**
- Developed a Full-stack web application enabling users to view, create, edit, and delete employee information.
- Integrated data entry validation for both front-end form and back-end server.
- Teck stack used: TypeScript, React, Java, Spring Boot, React Hook Form, and Render platform.
- Please kindly refer to the code and preview of my application here: https://github.com/uwerrrr/employee-creator.

Natural Language Processing (NLP) Sentiment Machine Learning (ML) Models Analysis   **July 2021**
- Implemented 4 Conventional and 6 Deep Neural Network (DNN) models in this NLP-driven project to predict emotions in a dataset of 12,622 tweets, using Python.
- Conducted a detail comparative analysis between models and achieved 64% accuracy on the Kaggle test set.
- Teck stack used: Python, NLP, ML models, ipynb, and Google Colab.
- Please kindly refer to the code and preview of my analysis here: https://github.com/uwerrrr/text_major_project.

MySQL Analytics   **Nov 2023**
- Performed data cleaning on a raw open-source E-Commerce dataset of 25,900 invoices from Kaggle.
- Designed a relational database with 3rd normal form normalization into 5 logical tables.
- Generated and visualised 3 insightful views using Python in a Jupyter Notebooke
- Teck stack used: SQL, MySQL, Python.
- Please kindly refer to the diagram and queries that I have prepared here: https://github.com/uwerrrr/mySQL-analytics.

PROFESSIONAL SKILLS

Technical tools and languages:
- NextJS, React & Node.js, TypeScript, Java & Spring Boot, NestJS, Python, TailWind, Drizzle, Turso, HTML, SCSS, TDD, Microsoft PowerBI, SQL, MySQL, Jira & Confluence, and GitHub.

Proficiency:
- Full Stack Website Development, Data Analytics, Machine Learning Models, CI/CD, Agile Framework, Database Design, and Documentation.

Interpersonal Skills:
- Problem-solving, Time Management, Analytical Thinking, Communication, Teamwork, Detail-oriented, and Adaptability.