# Oscar Nguyen

Sydney, NSW, Australia

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A data-driven professional with 2 years of combined experience 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.

## PROFESSIONAL EXPERIENCE

**Genius IT Solutions, Sydney, NSW**                                                          Mar 2024 – Jun 2024
*Full-Stack Software Engineer*
- Contributed to the development of a customer relationship management (CRM) Web Application project.
- Developed 3 pivotal features - document management, landing page and tax settings – along with unit testing functions for a full-stack application built with NextJS, TypeScript, ensuring robust functionality and adherence to best practices.
- Successfully captured and prioritized 10 functional and non-functional requirements, leading to a 20% increase in project delivery speed.
- Designed system process flow with UML flowcharts to visualize complex processes, enabling cross-team alignment.

**Nology, Sydney, NSW**                                                          May 2023 – Oct 2023
*Full-Stack Software Engineer*
- Completed an intensive 12-week training program on full-stack website development.
- Deployed 6 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 by migrating to Playwright end-to-end testing framework.
- Enriched data viewing requests by implementing 2 new HTTP requests using the MySQL virtual entities method.

**Truuth, Sydney, NSW**                                                          Feb 2021 – Jun 2021
*Data Scientist*
- Migrated from Firebase Kit to 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 a Scrum Agile environment to create a new app UX demo.
- Worked closely with a senior data scientist to increase the accuracy of Truuth MVP1 liveness fusion model from 65% to 75%, improving overall system reliability.

**TRG International, Ho Chi Minh City, Vietnam**                                                          Feb 2016 – Jan 2017
*ERP Application Consultant*
- Worked in a team of 5 to deploy an ERP project for a 2000-store 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 7 end-user training sessions and a detailed 15-page user guideline.
- Developed client-tailored solutions, improving operational efficiency by 25% using Excel Macro to overcome system limitations.
- Conducted 2 product pitching using Microsoft PowerBI.

## RELEVANT PROJECTS

**Employee Creator Web App**                                                    Dec 2023
- Developed a full-stack web application enabling users to manage employee information via RESTful API.
- Integrated data entry validation for both front-end form and back-end server.
- Tech stack used: TypeScript, React, Java, Spring Boot, React Hook Form, and Render platform.
- Please 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**         Jul 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.
- Tech stack used: Python, NLP, ML models, ipynb, and Google Colab.
- Please 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 Notebook.
- Tech stack used: SQL, MySQL, Python.
- Please refer to the diagram and queries that I have prepared here: https://github.com/uwerrrr/mySQL-analytics.

## EDUCATION

**Master of Data Science**                                                 Jul 2019 – Jul 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 place in the AI-Enabled Banking Hackathon 2020 organized by the 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 - leaded the sponsorship team in an academic competition that attracted 50 participants from 5 major universities.

## PROFESSIONAL SKILLS

**Technical tools and languages:**
- NextJS, React & Node.js, TypeScript, Java & Spring Boot, NestJS, Python, TailWind, ASP.NET, HTML, SCSS, TDD, Microsoft PowerBI, SQL, MySQL, Jira & Confluence, GitHub and Google Cloud services (Firebase, Firestore).

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

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

## REFERENCE

Full working rights in Australia.
References available upon request.