

# 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

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### 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

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### Full-Stack Software Engineer Intern

Mar 2024 – current

#### 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

#### Truth, Sydney, NSW

- Utilised Python and Mediapipe library to extend Truth 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 Truth 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**

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### **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.
- Tech 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.
- Tech 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](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
- Tech 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**

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### **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.