

# DE JONG YEONG (DJ)

Email: [de.jong.yeong@gmail.com](mailto:de.jong.yeong@gmail.com) | Phone: +353 (83) 4814269 | Address: Tralee, Co. Kerry

LinkedIn: [linkedin.com/in/de-jong-yeong](https://www.linkedin.com/in/de-jong-yeong) | GitHub: [github.com/dejongyeong](https://github.com/dejongyeong) | Portfolio: [dejongyeong.github.io/web-portfolio/](https://dejongyeong.github.io/web-portfolio/)

IRP Status: Ireland Immigration Stamp 2

## TECHNICAL AND PERSONAL SKILLS

### Proficient:

Python • Version Control • HTML5 • CSS3 • SCSS • Java • MongoDB • Oracle SQL / MySQL

### Exposure:

JavaScript • ReactJS • Material UI • Bootstrap 4 • PHP Laravel 5 • Travis CI • Heroku • C# • ROS Framework • C++

### Software Tools & Platform:

Trello • Slack • PyCharm IDE • IntelliJ IDEA • Photoshop CS5 • Figma • VS Code • Visual Studio

### Personal Skills:

Time Management • Teamwork • Communication • Self-Motivation • Well Structured • Problem Solving • Attention to Detail • Logical • Analytical • Open-mindedness • Creative

### Languages:

Chinese • English • Cantonese • Malaysian Malay

## EDUCATION

**Master by Research in Engineering | Institute of Technology, Tralee**

**Expected Nov. 2021**

**Dissertation title:** *Development of Machine Learning Algorithms for Autonomous Systems on Container Cranes*

- Award: Research Scholarship funding, supported, in part, by Science Foundation Ireland grant 13/RC/2094.
- Case Study 1: Sensor Fusion for Object and Person Detections.
- Case Study 2: Supervised Machine Learning Safety System for Integrated Smart Sensors.

**B.Sc. (Hons) in Computing with Software Development, 1:1 | Institute of Technology, Tralee**

**2015 - 2019**

**Thesis title:** *Sentiment Analysis Approach for Brand Reputation Evaluation*

### Semester Projects:

- Developed a [book management system](#) with **PHP Laravel 5** framework, **MongoDB**, **HTML5**, and **CSS3**.
- Employed [ARIMA](#) model to predict and forecast on global climate datasets from Kaggle using **Python**.
- Programmed a [UDP file server transfer system](#) with **Java** and **DTLS**.
- Demonstrated a fully automated [CI/CD](#) pipelines with **GitHub**, **Travis CI**, **Heroku**, and **GCP**.
- Developed a [school management system](#) with **C#** and **Azure SQL Server** adhered to MVVM design pattern.

### Core Coursework:

Object Oriented Programming • Data Structures and Algorithms • Design Patterns and Principles • Software Engineering • Software Testing • Databases • DevOps • Web Development • Distributed Computing • Big Data

## PROFESSIONAL EXPERIENCE

**Graduate Student Intern | IMaR Technology Gateway**

**June - Oct 2019**

- Programmed a GUI and automated crane metrics analysis per hour using **Python**, offering ease-of-use for industrial partner - Liebherr Container Cranes Ltd.
- Documented technical workflows and knowledge in private wiki for education of newly hired employees.
- Authored code fixes and enhancements for inclusion in future code release and patches.
- Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs, and enhancements.
- Led version control efforts within our team, employing **Git/GitHub**.

Blog: [yeongdejongworkplacement.wordpress.com](http://yeongdejongworkplacement.wordpress.com)

- Designed, developed, and implemented new features based on analysed requirements using **PHP Laravel 5** framework, **MySQL**, **JavaScript**, **HTML5**, **CSS3**, and **Bootstrap 4**.
- Conducted informal cognitive walkthrough and improved UX on StoryStock platform.
- Adhered to best practices for version control, employing **Git/GitHub**.
- Worked with CEO, Head of Story Department and Senior Developer to determine organizational need, designing pages to meet demand.

## PUBLICATIONS & PRESENTATIONS

**Yeong, D. J.**, Barry, J., & Walsh, J. (2020). A Review of Multi-Sensor Fusion System for Large Heavy Vehicles Off Road in Industrial Environments. **Presented** online at the 31<sup>st</sup> Irish Signals and Systems Conference. Letterkenny: IEEE. DOI: 10.1109/ISSC49989.2020.9180186.

Velasco-Hernandez, G., **Yeong, D. J.**, Barry, J., & Walsh, J. (in press). Autonomous Driving Architectures, Perception and Data Fusion: A review. Cluj-Napoca: IEEE.

## VOLUNTEERING EXPERIENCE

Facilitator | Institute of Technology, Tralee

9<sup>th</sup> Dec 2019

- Facilitated a group of 7-10 students in a discussion about climate change and technologies in Causeway Comprehensive School, as part of the Access21@ITTralee.

Student Volunteer | MegaDojo

13<sup>th</sup> Oct 2018

- Mentored a group of 9 students from age 7-17 in intermediate web design using **HTML**, **CSS**, and **JavaScript**, led by an experienced leader.

## ACHIEVEMENTS & CERTIFICATIONS

- Research Integrity: Concise (core course) Certificate, Epigeum, 30 March 2020.
- Microsoft Office Specialist 2010, Microsoft & Certiport, 2013.
- Computer Skills Certificate, UNSW Global & RE2 International Computer School, 2011

## INTERESTS, HOBBIES & ACTIVITIES

- Interested in web or mobile applications development and artificial intelligence.
- Playing chess – great way to unwind, destress, and keep the mind sharp.
- Gaming – great way to boost teamwork and destress.
- Served as a president of Bowling Club in 2013/14 in SMJK Sam Tet, Malaysia.
- Served as a committee member in Sixth Form society in 2013/14 in SMJK Sam Tet, Malaysia.