

# DE JONG YEONG (DJ)

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## SKILLS & TECHNOLOGIES

**Intermediate:** Python • Version Control • HTML5 • CSS3 • Oracle SQL / MySQL • ReactJS

**Exposure:** Java • JavaScript • Material UI • Bootstrap 4 • PHP Laravel • Travis CI • Circle CI • Heroku • C# • ROS Framework • C++ • SCSS • MongoDB

**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 • Curious

**Languages:** Chinese • English • Cantonese • Malaysian Malay

## EDUCATION

**Master by Research in Engineering | Munster Technological University, Kerry** 2019 - 2022

**Thesis title:** *Development of Multi-Sensor Fusion Perception Systems for Obstacle Detection in Container Terminals.*

- Liaises with colleagues within the organization to design and construct necessary components to ensure successful project deliveries.
- Obtains satisfactory feedback from supervisors and industrial partners following the preparation and presentation of monthly progress reports.
- Conducted research review on sensor and sensor fusion technology in autonomous vehicles that could be applied to next-generation cranes, leading to a publication in the MDPI Sensors Journal (IF: 3.576) with over 30,000 full-text views and 150 citations to date.
- **Tech: Python, (exposure): ROS, C++**

**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.*

**Relevant Projects:**

- Employed [ARIMA](#) model to predict and forecast on global climate datasets from Kaggle using **Python**.
- Demonstrated a fully automated [CI/CD](#) pipelines with **GitHub**, **Travis CI**, **Heroku**, and **GCP**.

## PROFESSIONAL EXPERIENCE

**Full Stack Developer (Part-Time) | IMaR Technology Gateway** Dec 2020 - May 2021

- Researched relevant technologies to develop web and mobile applications for stakeholders.
- Developed RESTful API services with **PHP Laravel 8.0** framework and **MySQL** database.
- Prototyped web and mobile applications with **ReactJS**, **React Native**, **LeafletJS**, and **Bootstrap 4**.
- Adhered to best practices for version control, utilising **Git/GitHub**.
- Formulated weekly progress reports for stakeholders and addressed the identified high-priority requirements to ensure successful project deliveries.

**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**.

**Web Developer Intern | StoryStock (Start-up)** Jan - Apr 2018

**Blog:** <https://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.

## PERSONAL PROJECTS

**Sentiment Analysis Web App** | <https://github.com/dejongyeong/nlp-web-app> **2022**

- **Tech:** Python, Django REST framework, ReactJS
- Classifies user-generated content into positive or negative sentiment using trained ML/DL models.

**Covid 19 Tracker Application** | <https://cov2-tracker.netlify.app/> **2021**

- **Tech:** ReactJS, ChartJS, React Simple Maps, CircleCI, Heroku, ESLint, Material UI, Styled Components.
- Visualizes the global and country-specific total confirmed, recovered, and deceased cases retrieved from Open Disease Data API.

**Online Portfolio V1** | <https://dejongyeong.github.io/web-portfolio/> **2020**

- **Tech:** ReactJS, EmailJS, GitHub Actions, Material UI, Figma.
- Showcases projects and professional experiences – a digital version of curriculum vitae.

## PUBLICATIONS & PRESENTATIONS

Karakuni, S., Barry, J., **Yeong, D. J.**, & Walsh, J. (**In Press**). Data Pre-Processing Methods to Enable Operational Metrics Calculations for Heavy Machinery.

**Yeong, D. J.**, Barry, J., & Walsh, J. (**2021**). Sensor and Sensor Fusion Technology in Autonomous Vehicles: A Review. MDPI Sensors Journal. **DOI:** 10.3390/s21062140

Velasco-Hernandez, G., **Yeong, D. J.**, Barry, J., & Walsh, J. (**2020**). Autonomous Driving Architectures, Perception, and Data Fusion: A review. Cluj-Napoca: IEEE. **DOI:** 10.1109/ICCP51029.2020.9266268

**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.

## VOLUNTEERING EXPERIENCES

**Workshop Instructor** | Kerry Science Festival @ Munster Technological University **8<sup>th</sup> & 9<sup>th</sup> Nov 2021**

- Delivered “Let’s code with Scratch” online workshop with William O’ Connor (colleague) to 34 primary students via Microsoft Teams.

**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 @ Institute of Technology, Tralee **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.

## ONLINE COURSES, CERTIFICATIONS & ACHIEVEMENTS

- Research Integrity: Concise (core course) Certificate, Epigeum, 30 March 2020.
- Microsoft Office Specialist 2010, Microsoft & Certiport, 2013.

## INTERESTS, HOBBIES & ACTIVITIES

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