

# Jilyan Bianca Dy

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## Education

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- M.S. Computer Science** February 2020 - January 2021  
National Taiwan University of Science and Technology  
Cumulative GPA: 4.17 out of 4.3  
Computer Vision Laboratory
- M.S. Computer Science** September 2019 - January 2021  
De La Salle University-Manila
- B.S. Computer Science with Specialization in Software Technology** August 2015 - October 2019  
De La Salle University-Manila  
Cumulative GPA: 3.234 out of 4.0; Honorable Mention  
Center for Language Technologies Laboratory

## Projects

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- Food Tracker** [github.com/jilyan-dy/food\\_tracker](https://github.com/jilyan-dy/food_tracker)  
A website for tracking a household's food inventory at home. Each housemate has a separate account to track their food. This project was implemented using ReactJS, Typescript, Sass, Flask, and MySQL.
- Resume Website** [jilyandy.com](https://jilyandy.com)  
[github.com/jilyan-dy/jilyan-dy.github.io](https://github.com/jilyan-dy/jilyan-dy.github.io)  
A static website showcasing my resume and publications in detail. I implemented this website using ReactJS, Gatsby, Sass, and GraphQL.

## Internships

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- Oral Storytelling Entity (ORSEN)** November 2018 - January 2020  
Research Assistant  
Funded by the government of the Philippines. This project enables collaborative storytelling between chatbots and children. I built features that allowed ORSEN to learn new vocabulary from the user and use this information to create engaging interactions. My contributions improved the affect score by 13.7% and the children's overall enjoyment by 14.6%. This project was implemented using Python, NeuralCoref, SpaCy, and Firebase.
- Creating Info - Web and Mobile Development** January 2018 - March 2018  
Intern  
I maintained a Point-of-Sale (POS) system and fixed issues presented by clients. These issues involve debugging both the front end and back end. I covered over 50 independent issues in 3 months.

## Skill Stack

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- Fields:** Computer Vision, Deep Learning, Natural Language Processing
- Tools:** Python, Java, ReactJS, PyTorch, NeuralCoref, SpaCy, MySQL, NoSQL

## Communication

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- English** ● ● ● ● ●
- Chinese** ● ● ○ ○ ○

## Research Publications

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- Dy, J.B.**, Virtusio, J.J., Tan, D.S. *et al.* **MCGAN: mask controlled generative adversarial network for image retargeting.** *Neural Comput & Applic* (2023). <https://doi.org/10.1007/s00521-023-08246-0>
- Zhou, Y.T., **Dy, J.B.**, Hsu, S.C., Hsu, Y.L., Yang, C.L., Hua, K.L. (2022). **SSRFace: a face recognition framework against shallow data.** *Multimed Tools Appl.*
- Yeh, Y.C., **Dy, J.**, Huang, T.M., Chen, Y.Y., Hua, K.L. (2022). **VDNet: Video Deinterlacing Network Based on Coarse Adaptive Module and Deformable Recurrent Residual Network.** *Neural Computing and Applications.*
- Lin, J. D., Lin, H. H., **Dy, J.**, Chen, J. C., Tanveer, M., Razzak, I., & Hua, K. L. (2021). **Lightweight Face Anti-Spoofing Network for Telehealth Applications.** *IEEE Journal of Biomedical and Health Informatics.*
- Dy, J.**, Brito, C., Tan, V., Lola, J., & Ong, E. (2021, February). **Acquiring Commonsense Knowledge during Collaborative Storytelling.** In *IOP Conference Series: Materials Science and Engineering* (Vol. 1077, No. 1, p. 012023). IOP Publishing.
- Ureta, J., Brito, C. I., **Dy, J. B.**, Santos, K. A., Villaluna, W., & Ong, E. (2020, September). **At home with Alexa: A tale of two conversational agents.** In *International Conference on Text, Speech, and Dialogue* (pp. 495-503). Springer, Cham.