Bill Pung Tuck Weng

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Passionate about using technology and entrepreneurship to build meaningful products for society. A curious learner and tinkerer who thrives in collaborative teams. I am seeking opportunities to apply AI and ML techniques to build deep tech products, with an interest in NLP, CV and other machine learning applications.

PROFESSIONAL EXPERIENCE

Graduate Student Researcher, Alibaba Talent Programme, Singapore

Jan 2019 - Present

PhD student in NTU specializing in Natural Language Processing, while conducting research for Alibaba under the EDB-Industrial Postgraduate Programme. Supervised by Prof Ong Yew Soon.

- Designed latent tree induction module for Transformer & LSTM models for 30-40% faster tree encoding across seven tasks, surpassing state-of-the-art accuracy by 4-8% in two of them. Paper under review in EMNLP 2020.
- Discovered failure of state-of-the-art Transformer & LSTM models in systematic generalization of multihierarchical relational reasoning in NLP using proposed novel dataset. Paper under review in EMNLP 2020.
- Top 8 Finalist in the Singapore-India Hackathon 2019: Led team of 6 Indians and Singaporeans to build neural network and data reporting platform for epidemiology prediction, presenting to Indian Ministers in Chennai.
- Relevant Coursework (NTU): Deep Learning, Data Science, Natural Language Processing, Optimization, Mathematical Statistics, Numerical Algorithms, Information Retrieval, Operations Research, Robotics.

CEO & Co-Founder, Co.kun, Singapore (Demo: tinyurl.com/cokun-demo)

Mar 2018 – Dec 2018

Launched a Sleep-as-a-Service start-up providing a sleeping pod on demand, in collaboration with NTU.

- Featured and interviewed in national media: The Straits Times, Business Insider, New Paper, Capital 95.8 FM.
- Served over 400 NTU students and staff, with 95% of users reporting interest to use service again.
- Awarded \$15k funding over business pitches to Boards of Directors from NTUitive & Garage@EEE Accelerator.
- 1st Runner-Up at the Nexia TS Business Plan Challenge 2018, presenting business plan to Nexia TS CEO.

Software Engineering Intern, JPMorgan Chase & Co., Singapore

May 2018 – Jul 2018

- 1st Place in Singapore, 2nd Runner-Up in APAC for the firm-wide Global Hackathon 2018, prototyped a voice-based authentication and chatbot system, obtaining buy-in from APAC leaders to embark on development.
- Collaborated with engineers from UK and India through daily Scrum stand-ups. Implemented new features in firm's global platform with Angular, and merged features into codebase with Git after successful code reviews.

EDUCATION

Nanyang Technological University, Singapore

Aug 2014 - Nov 2018

Masters in Technology Management, Bachelors in Engineering Science (Mechanical), Minor in Entrepreneurship. GPA: 4.58 / 5.00 (First Class Honours). Renaissance Engineering Programme with full-ride Nanyang Scholarship.

- Final Year Project (A+): Designed & developed wearable rehabilitative device for medtech start-up, SynPhNe.
- President of International Consultancy Network (Singapore): Led team of 5 to boost recruitment from 20 to 80 applicants, presented go-to-market strategy to robotics start-up CEO in Sweden as a student consultant.
- Co-Chairman of NTU Toastmasters: Organised nation-wide public speaking conference for 250 delegates.

University of California Berkeley, Student Exchange, USA

Aug 2016 - May 2017

- Mechatronics Capstone Projects (Distinctions for both): Designed an autonomous smart-home system with Arduino and a line detection-based self-driving car using LabVIEW, working in multi-cultural teams.
- Part-time internship with 3D printing start-up SE3D Inc, Oct'16 Apr'17: Designed interchange-able extruder system using SolidWorks and produced engineering drawings for CNC machining to manufacture printers.

OTHERS

Technical Skills: Python, PyTorch, Tensorflow, Keras, Java, C, Git, CUDA, Shell, Pandas, Latex, SQL.

Soft Skills: Public Speaking (Toastmasters CC, CL), Strategy Consulting (consulted for tech start-ups & MNC).

Hobbies: Taekwondo (Black Tip Belt), Certified Windsurfer, Kayaker, Scuba Diver, Climber.