

## Employment

Software Engineer Voice Bot (Python)	Teleexpress	Sep 2018 – Present
<ul style="list-style-type: none"><li>Lead developer for developing a voice chatbot system on PBX telephony system.</li><li>Reduced 40% character error rate by developing a key words correction algorithm.</li><li>Further improve the key words detection rate by 28.6% by building a customized ASR system.</li><li>Developed a gender recognition based in voice and implemented on the voice chatbot system with 98% accuracy.</li><li>Developed a voiceprint verification system.</li><li>Improved an open source YouTube videos crawler to construct Mandarin ASR training dataset.</li></ul>		
<b>Chatbot (Python)</b> <ul style="list-style-type: none"><li>Developed a data augmentation system which combine several algorithms.</li><li>Integrated SOTA NLP algorithm BERT to improve chatbot performance.</li><li>Reviewed industry-academy cooperation projects for the company.</li></ul>		
<b>E-Commerce Platform (.Net Core)</b> <ul style="list-style-type: none"><li>Developed backend microservice APIs for the platform.</li><li>Integrated open source BI tool into the platform.</li><li>Implemented business partner's decrypt algorithms in open source BI tool.</li></ul>		
<b>Customer Service Online Chat (.Net Framework)</b> <ul style="list-style-type: none"><li>Implemented a new chatting channel on WeChat.</li><li>Implemented business partner's decrypt algorithms in the system (Java).</li></ul>		
<b>DevOps</b> <ul style="list-style-type: none"><li>Compile docker-compose yaml configurations for defining and running multi-container e-commerce platform microservices.</li><li>Compile Kubernetes yaml configurations using Helm for automating deployment, scaling, and management of containerized e-commerce platform microservices.</li><li>Setting up Jenkins pipelines for automated CI/CD.</li></ul>		

## Education

Yunlin, Taiwan R.O.C.	National Yunlin University of Sciences and Technology	Sep 2016 – Aug 2018
<ul style="list-style-type: none"><li>M.S.E. in Computer Science and Information Engineering, Fall 2018. GPA: 4.0</li><li>Thesis: "Semi-supervised Learning Using Generative Adversarial Networks"</li></ul>		
Taoyuan, Taiwan R.O.C.	Chang Gung College	Sep 2011 – June 2015
<ul style="list-style-type: none"><li>B.S.E. in Computer and Information Science, May 2015.</li></ul>		

## Technical Experience

<b>Projects</b>
<ul style="list-style-type: none"><li><b>ShortUrl</b> A highly scalable url shortener service to reduce a long link. Using flask, MongoDB, Redis, and host on DigitalOcean.</li><li><b>Crypto Trading Gym</b> OpenAi custom gym environment in order to train reinforcement learning agents to profit in crypto markets.</li><li><b>Insult Puppy</b> A frontend practice project in which the insult contents come from Evil Insult Generator API and the Puppies images come from RandomDog API. Developed using Vue. Host on Netlify.</li><li><b>Game of Life</b> In memory of Dr. John Horton Conway. Developed using Python, SciPy, and OpenCV.</li><li><b>Access Control System with Face Recognition and RFID</b> An access control system which check both user RFID number and facial features to gain authorization. This system is currently being used in YunTech Research Center.</li><li><b>Kaggle Competitions:</b><ul style="list-style-type: none"><li>Google Cloud &amp; YouTube-8M Video Understanding Challenge: Top 15% Bronze Medal.</li><li>Statoil/C-CORE Iceberg Classifier Challenge: Top 14%.</li><li>Mercedes-Benz Greener Manufacturing: Top 15%.</li><li>Quora Question Pairs: Top 18%.</li></ul></li></ul>

## Languages and Technologies

<ul style="list-style-type: none"><li><b>Programming Languages:</b> Python (fluent), C# .NET Core/Framework (proficient), SQL (proficient), JavaScript (proficient), Shell Script (proficient), C/C++ (prior experience), Java (prior experience).</li><li><b>Technologies:</b> Git, Docker, Flask, MongoDB, Redis, MySQL, Microsoft SQL Server, Vue, Tensorflow, PyTorch, Kaldi, OpenCV.</li><li><b>Cloud Platforms:</b> Google Cloud Platform, Azure, DigitalOcean, Netlify.</li></ul>
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