Songshan District
Taipei, Taiwan R.O.C.

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Employment

Software Engineer	Telexpress	Sep 2018 − Present

Voive Bot (Python)
- Lead developer for developing a voice chatbot system on PBX telephony system.
- Reduced 40% character error rate by developing a key words correction algorithm.
- Further improve the key words detection rate by 28.6% by building a customized ASR system.
- Developed a gender recognition based in voice and implemented on the voice chatbot system with 98% accuracy.
- Developed a voiceprint verification system.
- Improved an open source YouTube videos crawler to construct Mandarin ASR training dataset.

Chatbot (Python)
- Developed a data augumentation system which combine severl algorithms.
- Integrated SOTA NLP algorithm BERT to improve chatbot performance.
- Reviewed industry-academy cooperation projects for the company.

E-Commerce Platform (.Net Core)
- Developed backend APIs for the platform.
- Integrated open source BI tool into the Platform.
- Implemented business parter's decrypt algorithms in open source BI tool.

Customer Service Online Chat (.Net Framework)
- Implemented a new chatting channel on WeChat.
- Implemented business parter's decrypt algorithms in the system (Java).

DevOps
- Compile docker-compose yamls.
- Compile Kubernetes yamls using Helm.

Education

Yunlin, Taiwan R.O.C.	National Yunlin University of Sciences and Technology	Sep 2016 − Aug 2018

- M.S.E. in Computer Science and Information Engineering, Fall 2018. GPA: 4.0
- Thesis: "Semi-supervised Learning Using Generative Adversarial Networks"

Taoyuan, Taiwan R.O.C.	Chang Gung College	Sep 2011 − June 2015

- B.S.E. in Computer and Information Science, May 2015.

Technical Experience

Projects
- **ShortUrl** A highly scalable url shortener service to reduce a long link. Using flask, MongoDB, Redis, and host on Digital Ocean.
- **Crypto Trading Gym** OpenAi custom environment in order to train agents profiting from crypto markets. Python
- **Insult Puppy** A frontend practice project which the insult content come from Evil Insult Generator API and the Puppies images come from RandomDog API. Developed using Vue. Host on Netlify.
- **Game of Life** In memory of Dr. John Horton Conway. Developed using Python, SciPy, and OpenCV.
- **Access Control System with Face Recognition and RFID** 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.

Languages and Technologies

- Programming Languages: Python (fluent), SQL (proficient), JavaScript (proficient), Shell Script(proficient), C/C++(prior experience), Java(prior experience), C# .NET Core/Framework (proficient).
- Technologies: Git, Docker, Flask, MongoDB, Redis, MySQL, Microsoft SQL Server, Vue, Tensorflow, PyTorch, Kaldi, OpenCV.
- Cloud Platforms: Google Cloud Platform, Azure, Digital Ocean, Netlify.