CHEN-YI HUANG

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titaneric
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Education

2018–2020 **Master of Data Science**, *Institute of Data Science & Engineering*, National Chiao Tung University, Hsinchu, Taiwan.

2014–2018 **Bachelor of Science**, *Department of Computer Science & Engineering*, Yuan Ze University, Taoyuan, Taiwan.

Work Experience

July 2018–Jan 2019 **WWW TA**, CS Computer Center, NCTU *Hsinchu, Taiwan.*

- Developed web services for hundreds of CS students, especially for Account Application System.
- Implemented in Laravel and Vue frameworks.
- Applied Git flow on development and Gitlab runner to automate the test and deployment jobs.

Skills

Data Science	Pandas, NumPy, PyTorch, Data Preprocessing, Data Visualization
Web Devs	Laravel, Vue, MySQL, PHPUnit, Gitlab Runner, Linux, Git
Programming	Python (proficient), JavaScript, C, C++
Language	Chinese (native), English (TOEIC 725)

Projects

- Music Recommendation System (Sep 2019) – Recommendation System using KKBox WSDM data
  - Collected the additional data from Spotify and preprocessed them.
  - Implemented the web-based interface to visualize the recommendation and user preference.
- AutoDiff from scratch (Sep 2019) – Simple neural network library supporting auto-differentiation
  - Reported an issue and solved it in various deep-learning libraries during the development.
  - Enabled high-level layer usage and had already tested on real-world dataset.
- Account Application System (Sep 2018) – Web service for NCTU CS students to apply their account
  - Developed in Laravel MVC architecture with additional Repository pattern.
  - Designed the database schema.
  - Implemented the business logic and account-activation-status API.

Open Source Contributions

- Found the redundant calculation of derivative of power function in various deep learning frameworks.
  - PyTorch, JAX, Autograd
- Developed some code to be more Pythonic.
  - Tensorflow
- Bug reporting
  - Python extension for Visual Studio Code
- Participation of issue discussion.
  - Windows Subsystem for Linux