CHUN-JUNG (AMY) CHIEN

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EDUCATION

Texas A&M University, College Station, Texas May 2020
Master of Science in Computer Science and Engineering

National Taiwan University (NTU), Taipei, Taiwan Jun 2017
Master of Science in Computer Science (Institute of Networking and Multimedia)
GPA 3.97 out of 4.3

National Tsing-Hua University (NTHU), Hsinchu, Taiwan Jun 2015
Bachelor of Science in Computer Science
GPA 4.05 out of 4.3 (Top 10% in graduation class); Two times winner of the Academic Achievement Award

TECHNICAL SKILLS

- Programming languages: Python, MATLAB, C#, C/C++, JAVA, JAVAScript, SQL, PHP.
- Interest Areas: Image Processing, Computer Vision, Data Analytics.
- Tools: Git, Tableau, Pytorch, TensorFlow, Caffe.

RELEVANT EXPERIENCE

TAMU Graduate Course Projects Aug 2018 – May 2019
Department of Computer Science and Engineering, TAMU, College Station, Texas

- **Movie Recommender System with Poster Augmentation:** Scraped movie posters through Python and extracted poster feature from model pretrained on ImageNet. Trained Generalized Matrix Factorization(GMF) and Neural Matrix Factorization(NeuMF) model along with visual feature. Enhanced the accuracy in both Hit Ratio and NDCG criteria.
- **TAMUber- Vehicle Interface Team**: Developed RESTful Web Services to manipulate the vehicle/user monitoring pages with Ruby on Rails. Utilized Google Map APIs to accomplish the route simulation for vehicles. Deployed to Heroku and used BDD+TDD to track user stories defined in Pivotal Tracker.

Graduate Research Assistant Sep 2015 – Jun 2017
Graduate Institute of Networking and Multimedia, NTU, Taipei, Taiwan

- Researched on depth estimation in single image based on monocular cues and implemented vanishing points detection, image segmentation, relative depth cues extraction, and depth ordering according to the relationship between segments in MATLAB.
  - Improved accuracy of adjacent segment pairs to 92% higher than state-of-the-art method.
- Used flash and non-flashed images to automatically rectify distorted photographed documents, including registration, specularity removal, image enhancement, and perspective geometric correction in C++.
  - Presented the research results and won Best Paper Award at the 29th Chinese Image Processing and Pattern Recognition Society (IPPR) Conference.
- Utilized clothes parsing method with color and texture features to classify different types of clothes in MATLAB.
- Used CaffeNet as the pre-trained model, trained a network through Caffe to complete 10-way object classification task, and gained a 97.5% accuracy on testing dataset. Also provided Python Command-Line Interface tool.

WORK EXPERIENCE

Software Development Engineer Intern Jun 2019 – Aug 2019
MediaTek, Hsinchu, Taiwan

- Coordinated and analyzed the data between teams and completed multiple data visualization works through Tableau.
- Connected data from Tableau Server using PostgreSQL and established the report that monitors and alerts extract jobs.
- Built data preparation flows that reduce execution time from 1 day to 1 hour through Tableau Prep and batch file.

Computer Integrated Manufacturing (CIM) Engineer Nov 2017 – Aug 2018
Taiwan Semiconductor Manufacturing Company (TSMC), Hsinchu, Taiwan

- Created C# GUI data verifier for auto authentication of user applied data.
- Maintained ranking rules in PLSQL with Scheduler and Dispatching team to ensure the wafers run in good machines.
- Reduced human resource costs for manual data verification and improved 5% total yields in the new fab.

Teaching Assistant for Digital Image Processing Mar 2016 – Jun 2016
Department of Computer Science and Information Engineering, NTU, Taipei, Taiwan

- Designed and graded assignments, projects, and midterms and prepared lecture materials.
- Provided office hours (2 hours per week) to assist students in coding and the concepts of image processing.