CHUN-JUNG (AMY) CHIEN

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EDUCATION

Texas A&M University, College Station, Texas May 2020
Master of Science in Computer Science
GPA 3.7 out of 4.0

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, C/C++, C#, Java, JavaScript, SQL, PHP, MATLAB.
- Applications/Platforms: Amazon AWS, Git, Tableau, PyTorch, TensorFlow, Caffe.
- Specialization: Computer Vision, Data Analytics, Image Processing, Machine Learning.

RELEVANT EXPERIENCE

TAMU Graduate Course Projects Aug 2018 – May 2020
Department of Computer Science and Engineering, TAMU, College Station, Texas

- **Movie Recommender System with Poster Feature Augmentation:** Scraped movie posters through Python script 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 on AWS Cloud9 to manipulate the vehicle/user monitoring pages with Ruby on Rails. Accomplished route simulation for vehicles using Google Maps Platform with JavaScript. Deployed to Heroku and utilized BDD+TDD to test user stories defined in Pivotal Tracker.

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

- Researched on single image depth estimation 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 the Best Paper Award at the 29th Chinese Image Processing and Pattern Recognition Society (IPPR) Conference.
- Used CaffeNet as the pre-trained model, trained a network through Caffe to complete a 10-way object classification task, and gained 97.5% accuracy on testing dataset. Also provided Python Command-Line Interface tool.

WORK EXPERIENCE

Software Development Engineer Aug 2020 – Present
The Michaels Companies, Inc., Irving, Texas

- Implemented backend APIs with Java Spring Boot framework to fetch products and inventory information.
- Generated dashboards using Python with Dash Library and experimented on time-series data prediction.

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

- Analyzed the data and coordinated with other teams and completed multiple data visualization works through Tableau.
- Built data preparation flows that reduce execution time from 1 day to 1 hour through Tableau Prep and batch scripts.
- Collected data from Tableau Server using PostgreSQL and established the reports that monitor and alert data extraction.

Software Development Engineer Nov 2017 – Aug 2018
Taiwan Semiconductor Manufacturing Company (TSMC), Hsinchu, Taiwan

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