Weifeng Hu

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EDUCATION

University of California – San Diego, CA 06/2020
Master of Science, Computer Science Engineering GPA 3.90/4.00
- Thesis: *A Data-Driven Study of Cross-Cultural Social Impressions on Faces*
- Relevant Coursework: Neural Networks, Natural Language Processing, Recommender System

University of Michigan – Ann Arbor, MI 05/2018
Bachelor of Science in Engineering, Computer Science GPA 3.83/4.00
- Graduated with the highest distinction - Summa Cum Laude
- Relevant Coursework: Machine Learning, Data Mining, Computer Vision, Security

SKILLS

Language C/C++, Python, C#, JavaScript, MATLAB, Java (Android), SQL, MySQL
Computer Hadoop (MapReduce), Windows, Visual Studio, Android Studio, LaTeX, Linux

EXPERIENCE

Industry

Amazon.com Seattle, WA
Software Development Engineer I 08/2020 - Current

Amazon.com Seattle, WA
Software Development Engineer Intern 06/2019 - 09/2019
- Developed text processing modules that optimized existing methods of obtaining syntax usage.
- Wrote an abstract syntax tree to JSON parser that streamlined the analysis of the tree content.
- Incorporated AWS services like DynamoDB that improved the functionalities of my code.

DiDi Chuxing Beijing, China
Algorithms Intern (Machine Learning) 05/2018 – 08/2018
- Built an XGBoost model that predicted the completion rate based on the features of ride requests.
- Extended the model by analyzing big data that determined the minimum drivers needed.

The MathWorks Inc. Natick, MA
Software Engineering Intern 05/2017 – 08/2017
- Implemented the initial version of a data visualization view that plotted parameters in JavaScript.
- Added keyboard navigation feature and corresponding unit tests that enhanced user experience.

Gocom Information & Technology LLC Hefei, China
Software Developer Intern 05/2016- 08/2016
- Developed Railway Automatic Testing Software with TCP/IP Socket in C# that improved testing efficiencies for human testers.
- Designed the communication protocol between programs that set up different testing conditions.

Research

Cross-culture Facial Impression Research San Diego, CA
Research Assistant 01/2019- 03/2020
- Developed a single deep neural network that predicted the ratings on 18 social impression traits.
- Worked on a GAN model that analyzed the effect of different physical attributes of the images.
- Built a website and performed statistical analysis that built groundwork for our studies.

Statistics and Visualization of Tornado Data Point-Patterns Ann Arbor, MI
Research Assistant 10/2015- 04/2016
- Visualized tornado landing intensity in the US for the past five decades.
- Applied kernel smoothing in a convolutional manner that provided interesting statistics.

PUBLICATION

Hu, W.*, Song, A.*, Yadav, D., Wen, F., Zuo, B., Vul, E., and Cottrell, G. Do you see what I see? A cross-cultural comparison of social impressions of faces. In *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*, pp. 1714-1720. (* equal contribution)

Hu, W., and Yang, R. Predicting the success of Kickstarter projects in the US at launch time. In *Intelligent Systems and Applications* (Cham, 2020), Springer International Publishing, pp. 497–506.

TEACHING

Neural Networks & Pattern Recognition Winter 2020
Recommender System & Web Mining Fall 2019

PROJECT

Democrats vs. Republicans Tweet Sentiment
https://github.com/weifhu0124/democrat_republican_tweets

Automatic Comment Generation for Python Code
https://github.com/weifhu0124/Code_to_Comment

Superspreader Detection in the Dataplane
https://github.com/weifhu0124/Superspreader_Detection

GAN on MNIST Tutorial
https://github.com/weifhu0124/gan

Pedestrian Alert!
https://github.com/weifhu0124/person_detect

Call Me Maybe Android App
https://github.com/weifhu0124/Call-Me-Maybe-AndroidApp

AWARD

Graduate Student Association Travel Grant UC San Diego
College of Engineering Class of 1935 Scholarship University of Michigan
Dean's List University of Michigan
University Honors University of Michigan
James B. Angell Scholar University of Michigan