(734)263-4727   ✉ xchou@umich.edu   ✉ 1851 Lake Lila Ln Willowtree Apartment, Ann Arbor, MI 48105

Xi Zhou
Objective: internship software developer summer 2017

EDUCATION & HONORS

- **University of Michigan, Ann Arbor, MI**   **09/2016-05/2018**
  Electrical & Computer Engineering M.S.E.
  Key courses: NLP, Computer Vision, Database Management System, Web Database Info Sys
- **Huazhong University of Science and Technology, Wuhan, China**   **09/2012-06/2016**
  Optical Information Science and Technology, Bachelor of Science   GPA: 85.68/100   Ranking: 17/110
  National Scholarship, Merit Students Scholarship, Self-Improvement Scholarship
- **Exchange student I-Shou University, Taiwan**   **09/2014-02/2015**
  Key courses: Creative thinking, Optoelectronic Detect & Signal Processing

PROFESSIONAL SKILLS

- Python, SQL, C++, HTML, JavaScript, MATLAB, C, LabVIEW

PROJECTS

Online Interactive Albums   **12/2016-02/2017**
- Applied MVC module to the blueprint and handled the backend with Python Flask.
- Used JavaScript to render page dynamically on the client side.
- Communicated with server-side via Asynchronous JavaScript and XML(AJAX) in JSON format.

Database Application Design   **12/2016-02/2017**
- Connected to a database using a JDBC driver and receiving results into a Java resultset.
- Tracked down target object out of 1800 entries of users table and 77127 entries of friends table.
- Reconsidered SQL statement to avoid nested queries in terms of faster runtime.

Funny Meme Creating System   **11/2016-02/2017**
- Used humor classifier with logistic regression and relatedness analyzer with Word2Vect to learn the connection between images and texts of good memes.
- Selected memory-based learning system due to the low-performance of stylistic features like alliteration.
- Calculated emotional match of memes in dataset in pair with input text that enhance the humor effect.

Artificial Neural Network Algorithm for Multi-Component Gas Analysis   **02/2016-07/2016**
- Constructed a robust backpropagation neural network with Levenberg-Marquardt algorithm and gradient descent with momentum algorithm.
- Trained the initiated network with at least 2400 sets of input until it met the error margin. Learned different algorithms for deep learning.

The Study of Growth of i-AlGaN on Bulk AlN Substrate (*Research Assistant*)   **09/2015-05/2016**
- Adopted pulse atomic layer epitaxy to grow high-quality i-AlGaN on bulk AlN substrate by Metal Organic Chemical Vapor Deposition.
- Analyzed the parameter data of growth to determine the Al composition and structural quality of AlGaN.

ACTIVITIES&INTERNSHIP

- Internship at Wuhan HuaGong Image Technology & Development Co.,Ltd   **07/2015-08/2015**
- Language tutor for international student twice a week as a member of Students International Communication Association   **03/2014-07/2014**
- Fundraising for campus festival in the Department of Public Relations at Student Activity Center   **10/2012-01/2013**
- Over 100 hours of volunteer: Graduation Ceremony, responsible for order and 60th Anniversary of HUST, responsible for the reception, accommodation arrangements   **09/2012-01/2013**