

# YAN ZHU

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## OBJECTIVE

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Passionate about computer vision and digital system design, looking for summer internship opportunity as a software engineer.

## EDUCATION

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### University of Southern California (USC)

Expected: May 2018

Bachelor of Science (BS), Electrical Engineering, GPA 3.82  
W.V.T. Rusch Undergraduate Engineering Honors Program Member  
Vice Provost Research Fellowship

### Temasek Junior College, Singapore

January 2012 - December 2013

GCSE Advanced Level,  
School-Based Scholarship Program by Singapore Ministry of Education (full scholarship sponsored by school)

## WORK EXPERIENCE

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### IBM Global Business Services, Summer Internship, Hangzhou, Zhejiang, China

May 2015 - June 2015

- Involved in IBM's strategic consulting team on Beingmate Group Co.Ltd's strategic transformation;
- Developed essential research, structured thinking and logic writing skills as a business strategic consultant; assigned project to analyze business opportunity of one travel application.

## PROJECTS

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### Signal Analysis and Interpretation Lab, Research assistant, USC

March 2015 - Present

- Conduct the research on character diarization in movies (Python); evaluate various face clustering methods and provide improvement solutions in collaboration with speech and text analysis teams;
- Analyze the audiovisual co-occurrence normalized by both speech and on-screen appearance (Matlab); extracted and formatted research's data set for further analysis( Python);
- Publication:* Tanaya Guha, Che Wei Huang, Naveen Kumar, Yan Zhu and Shrikanth S. Narayanan, Gender Representation in Cinematic Content: A Multimodal Approach, in: Proceedings of 17th ACM International Conference on Multimodal Interaction (ICMI), Seattle, WA, 2015.

### Spring Uber Online class project, Bittiger.io

October - November 2016

- Built location monitoring with Spring framework; related technologies: MongoDB, Docker, Web Socket;
- Developed location simulator, implement location and update service; remodel with Eureka.

### Minsweeper on FPGA, Class project, USC

November 2016 - Present

- Programmed Verilog script to simulate Minsweeper game and implement on Nexys-2 field-programmable gate array (FPGA) board (group of two);
- Simulate the game where user can move the cursor on the LED display and the animation of "mines" explosion.

## LEADERSHIP

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### Association of Chinese Students in Engineering, Co-founder & President, USC

June 2015 - May 2016

- Initiated with two other engineers to help Chinese engineering students achieve their full potential; established a close community where members are motivated to gain academic and professional development;
- Organized speaker series, coordinated with companies and other student organizations, hosted hackathon workshops and machine learning study group; within first month, recruited more than 200 subscribers and more than 50 active members.

## SKILLS

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### Computer languages Tools & Technologies

Java, Python, C++, Matlab, Verilog, HTML/CSS, Javascript  
Digital system design, Digital signal processing