

# Xiaowei Chu

Santa Cruz, CA, 95060 | (831)-346-8352 | [xweichu@hotmail.com](mailto:xweichu@hotmail.com)  
<https://www.linkedin.com/in/xweichu>

## Education

**Ph.D. in Computer Science** – University of California, Santa Cruz Sep. 2017- Jun. 2022

- GPA: 4.0/4.0
- Research Area: Distributed Storage System
- Courses: Algorithm Analysis, Machine Learning, Data Systems

**B.E. in Software Engineering** – East China Normal University Sep. 2009 - Jul. 2013

- GPA: 3.42/4.0
- Courses: Data Structure, Operating System, Database Systems, Software Process, Software Testing & Quality Assurance

## Work Experience

**Technical Support Engineer** – Microsoft Jul. 2013 - Jul. 2017

- Troubleshoot and provided triage and investigation of production environment issues for enterprise customers.
- Debugged source code of Office and assisted product group to fix bugs.
- Provided consulting and training services of Office, O365 and Yammer.

**Intern of Exchange Server Team** – Microsoft Jun. 2012 - Jun. 2013

- Developed case management tools which helped process the routine jobs automatically.
- Familiarized the architecture of Exchange server, Active Directory, and SQL server. And set up labs of for experiments and product features testing.

## Skills & Abilities

**Programming Languages:** C++, Python, C#, Java

**Tools and Framework:** Git, Django, MySQL, MongoDB, Android SDK, Octave, Matlab, Tensorflow

**Other Keywords:** Computer Vision, Image Processing

## Teaching Experience

**Teaching Assistant of CMPS-111 “Operating System”** Jan. 2018 - Mar. 2018

## Projects

### **Kinship Verification with an Optimal CNN**

Nov. 2017- Dec. 2017

Our goal was to verify the Kinship (mother-son, father-son, mother-daughter, father-daughter) given photos of two people. On one hand, we used the “Triplet Probabilistic Embedding Vector” and input and expanded input features to classify the Kinship. On the other hand, we built a 4-layer CNN to extract 512 features of each face and fed these features to the next 2-layer CNN to learn. We yielded an accuracy of 80.4 against the test data. We also built a web page to demonstrate the application.

Technology used: Python, Tensorflow, Flask, OpenCV

### **Email Insights**

May. 2016 - Aug. 2016

We designed a software to retrieve the email data from Exchange Online Sever and then create a dashboard with visualizations of the statistics. Some functions were achieved by analyzing the sentiments of the texts in emails. And on the platforms of Windows 10s and Windows Phones, we integrated Cortana to provide users with a new way of using voice to interact with their email data.

Technology used: C#, Power BI, Cortana, Microsoft Text Analytics API, Azure, Jason

### **3D Roaming based on Hand Gesture Recognition**

Jan. 2013 - Jul. 2013

Used images collected by digital camera to classify and track hand gestures. With defined gesture semantics based on the recognition results, the computer responded to different semantics drove the roaming.

Technology used: C++, OpenCV, VRML

### **Remote Monitoring System**

Jun. 2011 - Sep. 2011

Designed a program running on the ARM boards to collect and analyze the temperature information of server rooms in the wild. Built a web site which provided users with administrative functions, so that administrators could monitor the status of the sever rooms and take actions if anything unexpected happened.

Technology used: C#, Windows CE, MySQL, PHP, Baidu Map Service