

# Shuai (Palm) Zhou

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## Education

**University of California, Santa Cruz** — Santa Cruz, CA Sept. 2017 - Dec. 2018 (Expected)

Master of Science in **Computer Science**

- Selected Coursework: Advanced Programming, Data Visualization, Data Mining, Analysis of Algorithms.

**Macau University of Science and Technology** — Macau Sept. 2012 - June 2016

Bachelor of Science in **Software Technology and Application**

- Selected Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Operating Systems, Software Engineering, Web Technology, Principles of Compilers and Discrete Mathematics.
- Top One over 90 in GPA Ranking, Dean's List for 5 Semesters and Graduate with First Class Honors.

## Work Experience

**Riverbed Technology, Inc** — Sunnyvale, CA Jun. 2018 - Sept. 2018

**Software Engineering Intern** Responsible for improving performance and enhancing scalability of cloud management system.

- Decoupled old APIs and developed asynchronized ones to make the system suitable for large scale.
- Built multi-threading program in Python to optimize scale creation and speed up 10 times than before.
- Diagnosed racing condition issues on original system and fixed by migrating old data access layer to **Redis**.

**Institute of Automation, Chinese Academy Sciences** — Beijing, China Feb. 2016 - May 2017

**Research Intern** Researching on facial attributes and other computer vision related topics.

- Won first prize on FG 2017 Micro Emotion Recognition Challenge with an innovative multi-modality network.
- Trained **Convolutional Neural Network** models for facial attributes analysis, such as age, gender, race and emotion estimation using **Caffe**. Deployed those models to a web demo app based on **Flask**.
- Reproduced a cascade CNN **face detector** with a true positive rate of 0.80 on Fddb database.
- Assisted with holding the Chalearn LAP Gesture Challenge 2016, and organized the large-scale gesture databases which consist of 47,933 gesture videos distributed into 249 different gesture classes.
- Implemented distributed **image crawler in python** and collected more than two million facial images from image search engine.
- Built a program in C++ with optimized image hash method to identify duplicated images using advanced VP-tree algorithm. Inter-comparisons between millions of images can be done in seconds.

**Axcel Co.Ltd.** — Tengzhou, China May 2017 - Aug. 2017

**Founder & Software Engineer** Like Uber, instead of hooking ride seeker up with drivers, we match people who need someone to talk to with well-trained listeners.

- Built a tailor-made business management and order distribution system using **Django**. Not only saved manpower for the business owner but also helped them advance to a new level of scale.
- Robust crawler bots, based on **Selenium** and **PhantomJS**, involved to collect external data.
- Applied message queue (**Celery** with **RabbitMQ**) to asynchronize tasks and run periodical checks.

**Macau IT System Company** — Macau Sept. 2014 - Oct. 2014

**Software Engineer Intern & Project Lead** Led a team of four interns building the official site of Macau Software Industry Association from scratch.

- Built a content-providing website using **Ruby on Rails** in only three weeks with multi-language feature.

## Projects and Skills

- Image Labelling System** used to manually tagging attributes of faces. (**Django, RESTful API, Bootstrap**)
- Pressure Ulcer Analyzer** an **android app** which calculates areas of skin ulcers from camera. (**Java, OpenCV**)
- GRE Vocabulary Master** an **iOS app** for English words learning with reviewing strategy. (**iOS, Swift**)
- Air Quality Trend in China** an interactive geomapping visualization. (**D3.js, Bootstrap**)

**Other Experience:** Web App dev (**Perl** with Mojolicious, **Node.js** with **Express**), Simple Compiler (**C**), Simple Shell (**C, Python**), Text File Search Tool (**C++**), Scripts and Tools (shell, Python, Ruby), Web Front-end (**React, Bootstrap, jQuery**) and UI Prototype Design (**Sketch**). Nosql database (**MongoDB, Redis**).

**Skills:** Proficient user of Linux and macOS. Familiar with Git and Docker.

## Selected Publications

- Shuai Zhou, Yanyan Liang, Wan Jun, Stan Z. Li. Facial Expression Recognition Based on Multi-scale CNNs. *Chinese Conference on Biometric Recognition. & Springer International Publishing*, 2016: 503-510.