



Jiacheng Weng

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Education

University of Southern California	• Master of Science in Applied Data Science	Jan. 2021 – Dec. 2022
Zhejiang Normal University	• Bachelor of Science in Computer Science	Sept. 2016 – June. 2020
Temple University	• Exchange Program	May. 2018 – Aug. 2018

Skills

Web-Dev:  Java,  Python, Golang, C#,  JavaScript,  Vue,  React, SpringBoot, Django, Flask, ASP.Net, RESTful API, Terraform

Big Data: Hadoop, Spark,  MySQL, Redis, FireBase, MongoDB, PyTorch, TensorFlow

Tools:  Linux,  Windows,  MacOS,  Git,  AWS,  Docker,  Jenkins, \LaTeX

Work Experience

Sony Pictures Entertainment @ Software Engineer Intern Los Angeles, CA | Jun. 2022 – Dec. 2022

- ▶ Worked on a **video upscale** project to improve video quality and resolution.
- ▶ Improved the performance and user experience of the Web Application through **asynchronous programming** and UI logic optimization, etc. Reduced waiting time by **70%**.
- ▶ Integrated **HDR conversion** steps into the current AWS architecture.
- ▶ Utilized **Terraform** to orchestrate AWS services such as EC2, S3, DynamoDB, Lambda, Batch, SQS, etc. as the practice of **infrastructure as code**.

Nokia @ Software Engineer Intern Hangzhou, China | May. 2021 – Aug. 2021

- ▶ Developed a **5G document verification system**, used to regulate the document format.
- ▶ Acted as **Scrum Master**, collaborating with a **group of 7 engineers**. Implemented the idea of **Agile** development, familiar with **CI/CD** and **DevOps** process.
- ▶ Architected and built out a pipeline infrastructure with **GitLab Webhook + Jenkins + Docker** to leverage automation to prevent potential troubles.
- ▶ Revamped the back-end/front-end structure with **React / SpringBoot + MongoDB** to increase search speed by **30%**.

Hikvision @ Software Engineer Intern Hangzhou, China | Mar. 2020 – May. 2020

- ▶ Developed an **Auxiliary Platform (AP)**, used to audit submitted source code, documentation, etc., and authorize the permission-related configuration.
- ▶ Revised the back-end/front-end code with **Django + REST API / Vue + Element UI**, visualized data report with **ECharts**.
- ▶ Deployed **micro-services** and **CI/CD pipeline** with **Jenkins** and **GitLab**.

Project Experience

Hotel Management Website @ Debo Education, Summer Coding Camp | Aug. 2020 – Sep. 2020

- ▶ Developed Hotel Management Website with **SpringBoot**.
- ▶ Used **Solr** for full-text search, **Redis** to implement distributed lock, **ActiveMQ** for message queue, and use **Tomcat, Nginx** to deploy. Familiar with the use of Postman, Junit and Jmeters.

NILM(power decomposition) @ Temple University, Research Assistant | May. 2018 – Aug. 2018

- ▶ Joined A/Prof. Du's lab to work on a **non-intrusive electricity load monitoring (NILM)** project predicting the electric vehicles' electricity usage from the waveform graph of households.
- ▶ Finished **data cleaning** and reproduced the **AFHMM** and **machine learning** Benchmarks.
- ▶ Designed a **semi-supervised deep learning algorithm** to solve the problem.