

Jiacheng Weng

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🎓 Education

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|-----------------------------------|---|-------------------------|
| 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

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

Platform: 🐧 Linux, 🪟 Windows, 🍏 MacOS, 🐙 Git, 🌩️ AWS, 🐳 Docker, 🤖 Jenkins, L^AT_EX

👛 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 architecture.
- Introduced AWS **CloudFormation** to orchestrate the setup of different AWS resources such as S3, DynamoDB, Lambda, Batch, EventBridge, SQS, etc.

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.
- Designed the back-end/front-end with **Django + REST API / Vue + Element UI**, visualized reports 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** in distributed and microservices architecture.
- Use **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.