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#, JSJavaScript, ⋁Vue, ⚛React, SpringBoot, Django, Flask, ASP.Net

Big Data: Hadoop, Spark, 🛢MySql, Redis, FireBase, MongoDB, PyTorch, TensorFlow

Platform: 🐧 Linux, ⊞ Windows, 🍎 MacOS, Git, aws 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%**.
> ❯ Introduced **AWS CloudFormation** to orchestrate the setup of different AWS resources such as **S3, DynamoDB, Lambda, Batch, EC2, ECR, ECS, EventBridge, SQS, IAM, 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.