

# Yun-Yi Lin

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## EDUCATION

### University of California San Diego

La Jolla, CA

MS Computer Science and Engineering (GPA: 3.7/4.0)

Sept 2020 – Dec 2021

Algorithm, Network Systems, Recommender System, Deep Learning, Database System Implementation

### National Tsing Hua University

Hsinchu, Taiwan

BS Electrical Engineering (GPA: 4.08 / 4.3)

Sept 2015 – Jun 2019

## PROFESSIONAL EXPERIENCE

### Meta

Seattle, United States

Software Engineer

Mar 2022- Nov 2022

- Worked in Billing Product Infra, part of billing teams that together drive 98.5% of Meta revenue.
- Maintained a **C++** payer ecosystem that can scale for a large number of advertisers, in a team that supports small and medium businesses for their ads payment
- Attended development on a **PHP** backend for the convergence of postpay and prepay ads customers.
- Worked on a limit system with the **factory**, **adaptor**, and **strategy design pattern** that determined multiple limits of an Ads account.

### CommScope

Taipei, Taiwan

Software Engineer Intern

Jul 2021- Aug 2021

- Developed a **BDD Golang** testing tool with **command design pattern** supporting over 1k concurrent clients that publish NATS events at different rates.
- Built it as a Docker image and deployed it as a batch job on **Kubernetes** to test the difference of CPU utilization, Memory utilization, and processed count of **microservices** in two different versions.
- Monitored the target microservices with **Prometheus** with **k8s** ServiceMonitor resource and auto-created the graph results of multiple desired **PromQL** in **Grafana** dashboard by Grafana API.
- Automatically scaled the number of pod replicas of microservices by **Kubernetes**

### Intel

Hsinchu, Taiwan

Product Development Engineer Intern

Dec 2018 – Jun 2019

- Designed test methodologies for automating SSD verification with Python scripts.
- Increased 100% error detection rate and reduced NVMe SSD system-level test time by 50%.

## SKILLS

- **Cloud Native Tools** : Kubernetes, Docker, Prometheus, Grafana, Rancher, Helm, NAT
- **Language**: Go, Python, JavaScript, C/C++, HTML, CSS, Java, Perl, Haskell, Verilog
- **Tools**: Git, Node.js, Express.js, Django, MongoDB, Bootstrap, PyTorch, TensorFlow, NumPy

## PROJECTS

### React Youtube Video Searching website [Demo](#)

Aug 2021

- Rendered a video searching website with **React.js** and **Semantic UI**.
- Accessed videos with Youtube API and **Axios** and deployed the app on **Netlify**.

### Campground Rating and Browsing Website [Demo](#)

Jul 2021

- Built the front-end by **EJS** and **Bootstrap** for users to leave reviews and create campgrounds.
- Deployed the server-side website with authentication and **RESTful API** by **Express** and **Node.js**.
- Connected the website to MongoDB database to support CRUD and deployed the app on **Heroku**

### Todo Reminder based on Django Demo

Jul 2021

- Built the client-side by **HTML** in **Django** and **Bootstrap** to let users create their todo reminder.
- Deployed the server-side by Django to support RESTful API for users to **CRUD** the todos

### XQuery Processor

Mar 2021

- Built a **XQuery** processor that, given an expression and **XML** file, produces corresponding output.
- Used **ANTLR 4** parser generator to automatically construct abstract syntax trees of the input.
- Optimized the XQuery Processor by rewriting the XQuery expression by join operator with **Java**.

### Cloud-based File Storage Service Syncing Clients Files

Feb 2021

- Developed blocked file storage application with **GoLang** for multiple clients to synchronize files
- Implemented clients interacting cloud service via RPC call which works on the **AWS EC2 instance**.