

Hsin-Yu (Bryce) Huang

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EDUCATION

University of Illinois Urbana-Champaign

Master of Computer Science

Dec 2022 (Expected)

GPA: 3.9/4.0

National Tsing Hua University

Bachelor of Science in Computer Science

Jun 2018

GPA: 3.99/4.30

SKILLS

Programming Languages: Javascript/TypeScript, Java, Python, PHP, Rust, C/C++, Go

Technologies & Frameworks: Node.js, Django, MongoDB, PostgreSQL, MySQL, GraphQL, React, Vue.js

Cloud Services: GCP (Compute Engine, Storage, Cloud Run), AWS (EC2, S3), Firebase

Tools: Docker, Git, Linux, Travis-CI, Cloudflare

WORK EXPERIENCE

Meta (Facebook)

Software Engineer Intern

Menlo Park, CA

May 2022 – Aug 2022

- Collaborated with business messaging team to develop a customizable IFTTT (If This Then That) automation engine for messaging with React, Hank, and GraphQL
- Designed unit tests and e2e tests covering 75% of the intern project

QSticker (Startup) [\[website\]](#)

Co-founder, Software Engineer

Hsinchu, Taiwan

Aug 2020 – Jul 2021

- Established persistent task scheduler and web-based file system by Java and MongoDB
- Developed core messaging engine, encapsulating messaging channel and messaging logic
- Reduced costs by 50% by migrating api services from cloud VM to server-less container (Cloud Run)

Artiv Phototile [\[website\]](#)

Software Engineer

Hsinchu, Taiwan

Oct 2019 – Jun 2020

- Developed cloud photo storage that compresses and resizes uploaded photos using PHP and MySQL
- Reduced request response time by 50% through tuning compression algorithm based on OpenCV and C++
- Utilized OAuth2 authorization to import user's photos on Google, Facebook and Instagram Photo API

SELECTED PROJECTS

Bitcoin client

Jan 2022 – May 2022

- Used Rust to implement blockchain structure and mining module producing blocks
- Implemented p2p network protocol to exchange blocks and transactions between Bitcoin clients

FoodPocket [\[github\]](#)

Jul 2020 – Jan 2021

- Developed Single Sign-On (SSO) mechanism and RESTful APIs by Django and PostgreSQL
- Configured and deployed backend services on containerized Ngnix and Gunicorn, and ran on AWS EC2
- Automated unit-test, compilation and deployment tasks by establishing CI/CD flow with Travis-CI

Raft Consensus Algorithm (MIT 6.824 Lab)

Jul 2020 - Oct 2020

- Used Golang to implement Raft leader election, log replication, and reboot persistence features to manage replicated, fault-tolerant logs on distributed system
- Troubleshoot concurrency issues in simulated distributed system to reduce system fail rate from 0.1% to 0.01%