Galen Wong

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github.com/GalenWong

EDUCATION

University of California, Los Angeles **Los Angeles, CA**
Bachelor of Science in Computer Science *Expected June 2021*

- GPA: 3.99/4.00, Dean's List in 7 quarters
- Courses: Algorithm and Data Structure, Operating System Principles, Deep Learning and Neural Networks, Quantum Computing, Medical Imaging
- Awards: Hong Kong Scholarship for Excellence Scheme ($128,000 scholarship in total)
- Skills: Python, C/C++, JavaScript, HTML/CSS, Git, Node.js, React.js, Go

PROFESSIONAL EXPERIENCE

Bloomberg **Hong Kong**
Software Engineering Intern (Site Reliability) *June 2020 – August 2020*

- Designed and built a Python framework for **chaos engineering**, which emulates a distributed network system using Docker on a single machine to replicate failure scenarios in the production environment
- Developed a command line interface for the framework with heavy focus on developer experience, supporting YAML-based configuration of network topology with auto-complete support and interactive browser-based visualization
- Reproduced a production issue to uncover unforeseen memory leak issue, and saved it as a replayable snapshot

Tencent **Shenzhen, China**
Software Engineering Intern *April 2020 – June 2020*

- Upgraded all internal CI platform source code, bumping up Angular by two major releases and TypeScript by one major release. Abandoned support for Node 8 and added support for newer Node version
- Built a Jest testing platform with **NestJS** to be part of the CI pipeline, with support for test result notification via messaging application, test result and coverage report web GUI, and a set of API for integration with other pipelines
- Designed and implemented a frontend dashboard for managing over 1400+ backend microservices for better management, with a set of configurable graph APIs to showcase status of key migration goals

Lalamove **Hong Kong**
Software Engineering Intern *June 2018 – August 2018*

- Independently designed a map-based UI in **React** that dynamically displays delivery orders and driver location for customer service team to keep track of 1000+ delivery orders per day
- Designed a server-level Redis caching to reduce hits to database by 8 times (PHP)
- Re-architected 40% of public facing ordering API (15% of total orders) to increase system usability and stability through a migration of code base frm PHP to **Golang**

Notey **Hong Kong**
Software Engineering & Data Science Intern *June 2019 – September 2019*

- Built a **Chrome extension** based on React to test a website's access speed in the US and China. Implemented caching with `chrome.storage` API to improve usability
- Derived a method to quantify the impact of dynamic Ajax rendering on a page using **Selenium Web Driver**
- Independently built a distributed web crawling system using Puppeteer to control the browser (Node.js in TypeScript), and Bull task queue (Redis-based). A React web interface for managing the system and modifying dynamic configuration

Microsoft **Los Angeles**
Student Partner *September 2018 – May 2019*

- Taught a workshop on Node.js application deployment on Azure. Mentored students on all web app related issues (github.com/GalenWong/hoth6-azure-starter)
- Prepared a workshop to teach hackathon participants how to use the Azure Face Detection API and integrate it into their application (github.com/GalenWong/HOTH-V-Microsoft-workshop)

LEADERSHIP EXPERIENCE

ACM Hack
Officer/Curriculum Director *Feb 2018 – Present*

- Spearheaded a beginner-friendly Python workshops, helping 100+ learn basic Python. QA all workshops and provides feedback to presenters. Check out our lessons here: github.com/uclaacm/learn.py-s19
- Started a new workshop series on advanced **JavaScript** covering topics such as event loop, advanced React, function scopes, etc. Check out the series here: hack.uclaacm.com/posts/fall2019/js-chats-summary
- Organized the biggest beginner-friendly hackathon in UCLA (hoth.splashthat.com)