

Ziping Liu

✉ liuziping@gmail.com
☎ +1 (979) 319-2471
🌐 [linkedin.com/in/ziping-liu-1932a029a](https://www.linkedin.com/in/ziping-liu-1932a029a)

🇺🇸 United States Citizen
🏠 109 Spanish Oak Circle, Lake Jackson, TX, USA, 77566

With a strong foundation in Software Engineering and Full-stack Development, I have honed my skills through contributions to open source projects and innovative web applications. My academic background in Computer Engineering, Electrical Engineering, and Asian Cultures and Languages has equipped me with a diverse skill set that includes expertise in Frontend, Backend, React, Node, SQL, Wordpress, and CD and CI. I am eager to embark on new career opportunities in software engineering and am open to relocation for the right opportunity.

Experience

Software Development Engineer (Full-time)

Amazon Web Services 

March 2020 to May 2022
Seattle, Washington

- As a software development engineer, my role required active work in backend, frontend, and development operations.
- As a development operations engineer, I worked with principal engineers to improve operational efficiency by developing advanced protocols and designing comprehensive internal frameworks for continuous integration and deployments. I conducted in-depth research on CW Synthetics and Cypress, enhancing our technical knowledge base, and led in resolving team tickets.
- I was instrumental in front-end feature development, with a special emphasis on React - and worked closely with our UX team to ensure technically feasible UX designs.
- I led revisions in accessible UX text through empathetic and inclusive writing stylizations, as well as enabling our technical writing teams to fully understand our back-end and front-end services given my role as a key point of contact.

Software Engineering Intern

Texas Instruments 

May 2019 to August 2019
Sugar Land, Texas

- I embarked upon a quest to delve deeper into the realm of speech recognition, armed with a newfound fervor.
- I meticulously analyzed the viability of digital signal processors in executing deep learning algorithms, which traditionally operate via graphics processing units (GPU).
- I spearheaded a team project for TI's annual internship design challenge, creating a local, voice-controlled spice-rack, viewable here: <https://www.hackster.io/spicerrack-team/voice-controlled-spice-rack-235834>

Patent Engineering Intern

Holland and Hart LLP 

May 2017 to August 2017
Boulder, Colorado

- I was interested in legal aspects of IP and patent law, which resulted in my internship at a prestigious law firm, Holland and Hart LLP
- I crafted compelling arguments to overturn patent application rejections from patent offices in the US, China, and the EU.

Electrical Engineering/ Signal Processing Intern

TICOM Geomatics (CACI) 

June 2016 to August 2016
Austin, Texas

- Worked within a defense contractor, which provided a different environment from both private and public sectors.
- Conducted a detailed characterization of a software-defined radio (SDR) NI X310s, utilizing signal generators, Matlab, and GPS units with Matlab and C++.

Electrical Engineering Intern

Hewlett-Packard Enterprise 

June 2015 to August 2015
Houston, Texas

- I was responsible for the development of a new BIOS/UEFI feature in calibrating Adobe RGB enabled displays, which was a part of certain models from HP EliteBook business laptops.
- I also implemented automated full color spectrum factory calibration with full color spacing at the production pipeline floor levels involved in laptop manufacturing.

Education

University of Texas at Austin  The University of Texas at Austin
Cockrell School of Engineering
Bachelor of Science in Computer and Electrical Engineering

Graduated Fall 2019

University of Texas at Austin  The University of Texas at Austin
College of Liberal Arts
Bachelor of Arts in Asian Cultures and Languages

Graduated Spring 2019

Projects

Pin-Yin Annotator Tool for Chinese (Mandarin) Characters Web Application

- A complimentary online text editor designed with the capability to append pin yin as annotated text to Chinese characters. This tool was born out of my personal struggle to locate an annotator that was user-friendly and harnessed the power of the most recent web technologies. Furthermore, I harbored the desire to facilitate the effortless exportation of these annotations into a broad spectrum of formats.
- This tool is still in development and is free to use at <https://a2z.institute>

Continuous Deployment and Integration through Github

- Recognized as a distinguished leader in development operations, I have consistently found this challenge captivating and have persistently aimed to enhance existing procedures.
- With the universal acceptance of GitHub as the premier platform for monitoring code alterations and the accessibility of advanced features and tools, I embarked on a personal journey to investigate the potential of harnessing these resources to establish a comprehensive continuous deployment and integration system, even as a complimentary user. I successfully engineered and presently sustain a functional continuous deployment and integration system for one of my most active projects on GitHub.
- While further documentation and explanation will be provided in due course, I invite you to witness the system in action on Github via the following redirect link: <https://zi-ping.com/projects/react-adobe-embed>

Notable Skills

TypeScript or JavaScript React or React.js Java C MySQL NPM Node or Node.js Cypress GCP Azure AWS CD and CI Frontend or Backend Wordpress

Social Links

 LinkedIn  Github  Wakatime  Blog  YouTube