Yuchen Zhang

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EDUCATION

- **University at Buffalo**   Buffalo, NY
  M.S. in Computer Science; GPA: 3.67/4.0   *Aug 2018 - Sep 2020*
- **Sichuan University**   Chengdu, China
  B.E. in Software Engineering & Minor in Biology; GPA: 3.21/4.0   *Sep 2014 - June 2018*

SKILLS

- **Languages**: Python, Javascript/ES6/Typescript, Java, C/C++, SQL, HTML5, CSS3, PHP
- **Frameworks & Tools**: React.js, Next.js, Redux, Node.js, Bootstrap, Express.js, Git/Github, Docker, CI/CD, Webpack, GraphQL, MySQL, MongoDB, Redis, PostgreSQL

EXPERIENCE

- **Plaxy Technology Inc.**
  Full Stack Engineer   *July 2020 - Present*
  - Work as a full stack engineer working on building minimal viable product(MVP) which is a platform providing monetization tools for content creators
  - Collaborate closely with designer to translate the design and logic into frontend pages using **React**, **Redux**, Redux-thunk
  - Develop RESTful APIs using **Node.js** and **Express.js**. Design and build data tables with **PostgreSQL** deployed on AWS RDS for data persistence
  - Refactor and create re-usable React components and new pages. And combine using react-responsive and CSS to make a cross-platform responsive user interface. Also add animations using react-spring to improve user experience
  - Take charge to fully integrate **Stripe** API to credit, subscribe, transfer and refund, and help connected all the functions with payment system
  - Conduct version control and code reviews with **Git** and **Github**

- **Institute of Computing Technology**
  Research Intern   *May 2019 - July 2019*
  - Worked in a team focusing on building a benchmark for High Performance Computers(HPC) AI systems. Implemented AI operators include fully-connected, convolution and pooling operators with **Cudnn** and **Mkldnn** for constructing micro benchmark
  - Analyzed AI specific computing ability on HPC using **PAPI** to capture the low-level computing data and achieved distributed parallel computing using **OpenMPI** cross 14 GPUs. And utilized **Docker** for setting up environments on 5 different platforms
  - Investigated the core principle of tensor core acceleration realization and applied to AI operators
  - Published findings in the paper "HPC AI500: a benchmark suite for HPC AI systems"

PROJECTS

- **Crown Clothing Website** - crwn-cloting-live.herokuapp.com
  - Established a user-friendly and responsive SPA using **React**, **Redux**, **Redux-saga**, configured and bundled frontend resources using **Webpack**. Styled web app using **styled-components** to apply CSS-in-Js
  - Worked on **Travis-CI** to implement CI/CD
  - Achieved third party authentication using **Firebase** and used it as NoSQL database

- **Postit Forum** - https://github.com/Seraph-YCZhang/typescript-reddit-web
  - Developed a forum with posting, commenting, voting functions using **Typescript**
  - Built frontend using **Next.js**, **urql** and **Chakara-ui** and a GraphQL backend using **Apollo-server**, **typeORM**, Express.js, and Postgresql
  - Utilized Redis and uuid for password resetting, **Dataloader** for batching and caching data requests

- **Invenst Club Website** - invenst.cse.buffalo.edu
  - Worked in a team of 4 taking charge of refactoring the static website into dynamic website, which is used by over 50 students and faculties every semester, and we have went through the whole life-cycle software development process
  - Took responsibility to add sign-in/sign-up and following functions and rebuild the frontend
  - Tech using **HTML**, **CSS**, **Ajax**, **Javascript**, **JQuery**, **Bootstrap** for frontend, **PHP** and **MySQL** for backend

- **WeChat Crawler** - github.com/Seraph-YCZhang/WeixinCrawler
  - Implemented a Python web crawler to scrape Wechat articles through Sogou search engine using **requests** and **Beautiful Soup** with data stored in MySQL database
  - Built a proxies pool to get avoid getting blocked using **Redis, pyquery, aiohttp, Flask**