SIYU CHEN

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Education

Bachelor of Science: Computer Science   *Expected in May 2022*
University of Florida - Gainesville, FL
- **GPA: 3.8 / 4.0**
- President's Honor Roll: Spring 2019 | Dean's List: Fall 2019, Fall 2020, Spring 2021
- Relevant Coursework: Software Engineering, SW testing Continuous Delivery, Database Systems, Operating System, Computer Network, Data Structures & Algorithms

Work Experience

Dev Lead   *June 2021 - Current*
University Of Florida – Gainesville, FL
- Leading development team to build a Cloud Arduino IDE under Dr. Christina Gardner-McCune in Engaging Learning Lab – **Node/PostgreSQL/Docker/Arduino/React/Heroku**.
- Managing web app scalability for classroom deployment to serve 10+ elementary schools and 200+ 3rd to 5th grade students.

Back End Developer   *Feb 2021 - June 2021*
University Of Florida – Gainesville, FL
- Built and maintained **headless CMS** of an interactive Arduino IDE Web App using **Strapi**.
- Remodeled compile server event listener to allow horizontal scaling and improved compile speed by 30%. – **Redis/Bull/Heroku/Arduino**
- Implemented Web Serial API to allow users to connect their USB and Bluetooth devices to the App.

Personal Projects

Microtick *https://github.com/syuChen1/MicroTick*   *July 2021 - Current*
- Implementing an event-based microservice Web App with **TypeScript** and **NATS-Streaming Server**.
- Designing a server-side rendering client with **React** and **Next.js** with Stripe Payment API.
- Managing Container Orchestration with **Docker**, **Kubernetes,** and Skaffold within distributed system.
- Devised **GitHub Action** CI/CD workflow to test, build and deploy each service to **Digital Ocean**.

Shoppingfy *https://github.com/syuChen1/Shoppingfy-MERN*   *May 2021 - July 2021*
- **MERN** stack web application built with **CI/CD** and production-grade workflow.
- Utilized **React** and **Redux** to build a full-functional eCommerce frontend with Admin features.
- Containerized with **Docker** and deployed to **AWS** Elastic Beanstalk through **Travis CI**.

Skills

Languages: JavaScript, TypeScript, C++, Java, Python
Web Development: Node.js, Express, React, Redux, Next.js, MongoDB, PostgreSQL
Technologies – Git, Docker, Kubernetes, CI/CD, NATS-Streaming, Redis, Heroku

Involvement

- Technical Officer @ UF Chinese Engineering Student Association   *May 2021 - Present*
- Member of the UF Software Engineering Club   *Sept 2020 - Present*