

EDUCATION

West Lafayette, IN	Purdue University	Aug 2019 - May 2023
<ul style="list-style-type: none">• Major: Computer Engineering, B.S.C (GPA: 3.96)• Minor: Computer Network and Information Technology• Semester Honors - (8/8) Semesters Dean's List - (8/8) Semesters• Programming Coursework: Algorithms and Data Structures, Networking, OOPs, Systems Design, OS		

SKILLS

Programming Languages: Python, Javascript, C, GO, SQL, HTML, CSS

Frameworks: ReactJS, NodeJS, Flask, Svelte, Express, SQLAlchemy

Tech: RestAPI, Git, Linux, PostgreSQL, MongoDB, Google Analytics, VSCode, AWS S3, Docker, Postman, PyTorch

Language Competency: English, Cantonese, Mandarin, Spanish

EMPLOYMENT

Software Engineer, Intern	TikTok Inc.	May 2021 - Aug 2022
<ul style="list-style-type: none">• Improved efficiency and transcoding latency of video processing workflow by 35% by implementing a serverless function that optimizes RPC calls made in transcoding workflow.• Reduced 5x unnecessary downstream traffic RPC calls to a core service by improving code quality of microservices.• Estimated to increase JSON parsing speed by 60% by migrated existing JSON parsing library to Sonic.• Migrated backend of company internal application "BuddyTok" to flask, connected services to external APIs.• Built own CI/CD pipeline for intern project for rapid deployment of serverless function to production.		

Software Engineer	Merck	Aug 2021 - July 2022
<ul style="list-style-type: none">• Solved a double labelling issue within Merck facilities by developing a web application that has an inhouse qr-code generator and qr-code scanning function for test vile and test sample lookup.• Designed a platform for scientists to batch upload .csv files containing legacy sample data and parse it and store into AWS S3 and pipeline files through databricks for data visualization.• Increased scientists sample labelling efficiency by 50% within Merck Facilities through the web application.• Integrated AWS PostgreSQL as RDS and AWS S3 bucket for data redundancy of csv files and forum inputs.• Containerized application with docker and deployed it on a kubernetes orchestrator.		

Software Developer, Part-time	Purdue Agriculture	Oct 2021 - Nov 2021
<ul style="list-style-type: none">• Used Svelte, Typescript and Tailwind css to build front-end of web application.• Fixed bugs related to site navigation to provide farmers a smoother user experience.		

Web Developer, Intern	Alco Holdings Limited	Jun 2021 - Jul 2021
<ul style="list-style-type: none">• Utilized NodeJS, ReactJS, HTML, CSS, Javascript to create companies' websites to display latest products.• Daily standups with CEO and marketing team to ensure website encapsulates the goal of the product.• Scheduled meetings with graphics design team to retrieve graphics and logos to implement on the website.		

RELATED EXPERIENCES/ PROJECTS

Full-Stack BootCamp - Deep dive into Modern Web Development

- Exercised Token Authentication with JWT and Bcrypt for secure user authentication.
- Created full-stack web application chat website using socket.io and the MERN stack.