Shicheng Fang

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EDUCATION

Purdue University, West Lafayette   Expect Graduation: Dec.2023
- Bachelor of Science, *Computer Science* (GPA 3.95/4.0)
- Courses: Data Structure & Algorithms, Software Engineering, System Programming, Database, Testing
- Programming Languages: JavaScript, TypeScript, Java, Python, C/C++, SQL, Shell, HTML, CSS, Sass
- Technologies/Frameworks: React/Redux, React Native, Angular, Node.js, AWS, Express, Tornado, jQuery, GraphQL, Bootstrap, Spring Boot, Linux, Figma, Git

WORK EXPERIENCES

Startinvest   Los Angeles, CA
                                                                              June. 2022-August. 2022
Software engineer intern (React, React Native, TypeScript, AWS Amplify, AWS Lambda, GraphQL)
- Styled, developed, and tested 5+ **React Native** and 10+ **React** components in **TypeScript**.
- Customized **React Hooks** to encapsulate 20+ **Ajax** API calls and designed consistent and reusable **TypeScript** interfaces which reduced 10% lines of code after refactoring.
- Configured **AWS Amplify** for authentication and hosting, **AWS Lambda** for development of 10+ **GraphQL** APIs using **Python**, and **DynamoDB** for permanent storages.
- Detected and reproduced critical **CSS** animation errors, and resolved the bug by designing **Web Workers** for asynchronous execution of CPU intensive tasks.

Gro Master, Inc.   West Lafayette, IN
                                                                              April. 2022-June. 2022
Software developer (React, JavaScript, Python, Tornado, PostgreSQL, AWS EC2, D3.js, Figma)
- Developed an interface for displaying real-time farming data, with **React** frontend and **Tornado** backend.
- Visualized real-time data with 10+ interactive and animated charts by incorporating **D3.js**.
- Analyzed web loading time and identified performance bottleneck using Google dev tools. Applied **lazy loading** to increase loading speed of landing pages by 20%.
- Designed 10+ **stored procedures** on **Postgre database**, speeding up SQL queries by 50%.

Bevy & Dave   Ashburn, VA
                                                                              Feb. 2022-April. 2022
Web developer intern (Wordpress, PHP)
- Designed the company's landing page and UI components on **Wordpress** platform and built 3 **restful** APIs with **PHP.**
- Organized meetings with service providers to communicate business requirements.

SELECTED PROJECT

Ticket Booking (Java, Spring Boot, MySQL, RabbitMQ, Redis)   March. 2022
- Developed **WebSocket** backend using **Java** and **Spring Boot** for continuous real-time data delivery.
- Incorporate **RabbitMQ** middleware to ensure correctness, performance, and reliability of data transfer in high concurrency environments.
- Designed delicate **Client-side** and **Server-side LRU Caching** mechanisms, including browser local storage and **Redis** caching middleware, to reduce frequency of HTTP calls by 10% and SQL queries by 50%, substantially lessening server pressure and reducing latency.