Jiannan Huang

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SKILLS

Programming Languages: Typescript, Java, C++, JavaScript, HTML5, CSS3, JSX, SQL, Node, GraphQL, Apllo Server

Frameworks: React, Vue, Redux, Node Express, Flask, Bootstrap, AntD, AntV, Material-UI

Highlights: Data Structure and Algorithm, Digital and Computer System Architecture, Computer Networks, Database Management Systems

EDUCATION

University of Southern California, MS in Computer Science,	GPA 3.76/4.0	September 2019- December 2022
University of Birmingham, BE in Mechanical Engineering	GPA 4.25/4.25	September 2017- June 2019
Huazhong University of Science and Technology, BE in Mechanical Engineering	GPA 3.86 /4.0	September 2015- June 2019

WORK EXPERIENCE

Software Engineer Intern | Google, Mountain View, California | August 2022 - Nov 2022

Source Schema Overlay Auto Converter

- Convert table schema overlay to new format automatically and reduce manual conversion and verification of 350+ tables.
- Optimize the inconsistency comparison view to make it easier to locate differences and errors.

Database table schema redesign and migration

- Redesign the schema to reduce data inconsistency with around 100k query count per week
- Migrate data from old table schema to new table schema and validate data consistency

Software Engineer Intern | Salesforce, Bellevue, Washington | May 2022 - August 2022

Core App Bytecode Performance Instrument

- Developed instrumentation that collects performance metrics of specific methods within the Core App
- · Attached the instrumentation to Core App's bytecode, and injected performance instrumentation code into target classes/methods
- · Instrumenting without changing source code helped reduced the investigation time from a couple of days to a few minus
- Developed using JAVA, JVM, Linux, Shell, Javassist, JFR profiles

Backend Performance Measurements Display Platform

- Extended a results platform with data of backend performance results that and bugs
- Created NodeJS RESTful API server efficient query to retrieve data from PostgreSQL
- Built navigation bar, data table, bugs, and recent trending lines using JavaScript, HTML, CSS and Lightning Web Components (LWC framework)

Software Engineer Intern | Tencent Inc, Shenzhen, China | May 2020 - January 2021 Low-code API generate platform

- Built a low-code JSON to MySQL APIs generate platform using TypeScript which help generate API quickly, reducing current and future API coding work and bugs, and generated formatted API document automatically, reducing document work (2 patents publishing)
- Designed and developed low-code platform functionality using React framework, GraphQL and Apollo, and enable people write JSON config on online editor, and visualize all process step by step
- Parsed JSON config file to CRUD multiple databases by using TypeORM, and generated RESTful or GraphQL API

Content-sharing Author CRM platform

- Developed and maintained a Content-sharing Author CRM platform including author connection, admin permission control, post review, article audit, author introduction to helper operation staff collaborate with thousands of authors
- Developed in React framework, utilizing react hooks, Redux, and Ant Design libraries, Axios
- Improved web user interface for historical connected data chart, authors contact information, filter authors using JSX, and optimized the chart by using CSS, Ant Design and Ant Visualization
- Collaborated with project team with new application feature roll out using Git, CI/CD, and DevOps tools, backtracking historical feature and solving product update merge conflicts and uniform code specification during deployment using Git, ESLint, and committent
- Improved the overall web performance by using CDN, and code splitting in Webpack with dynamic imports, and supported on system-related issues report by using **Sentry**
- parameters in camera pose estimation process and analyzed the geometry constraints of the four reference points

PROJECTS

News display search website - Web Application, Android 10

- Built a responsive news search web that can provide real-time news from main news using HTML/CSS, Typescript with React
- Added features of search autocompletion, dynamic component loading, and local storage changing/retrieving by React service unit, centralized API calls, and optimized scalability from Fox, CNN, and New York Times
- Built a NodeJS Express server for React content rendering on AWS cloud and utilized pipeline for deployment and server-side editing
- Created a Node.js RESTful API to centralize HTTP from the user-end, and asynchronously retrieve resources across different domains, made HTTP requests to News APIs; Parsed JSON data and filtered unnecessary content to reduce load time on the user-end