Yolande Yan

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science

B.S. in Computer & Information Science and Cognitive Science

B.S. In Computer & Information before and Cognitive Selection

Philadelphia, PA Expected May 2025

■ GPA: 4.0 / 4.0 | Honors: Dean's List

SKILLS

- Languages: Java, Python, C, C++, JavaScript, SQL, YAML, TypeScript, HTML/CSS.
- Frameworks: React.js, React Native, Node.js, Express.js, Spring MVC, Spring Boot, Spring Cloud, Django, JUnit, JavaFX, Flask.
- UI Frameworks: Ant Design, Material-UI, BootStrap.
- Databases & Cloud Platforms: MySQL, SQL Sever, MongoDB, Redis, Firebase, AWS, Azure, Google Cloud Platform.
- Tools & OS: Docker, CI/CD, Git, Postman, Linux, Dagster, Apache Tomcat.

INTERNSHIP EXPERIENCE

Bank of America Global Technology Summer Analyst

New York, NY

Software Engineering Intern for Liquidity Management Technology

June 2024 - August 2024

- Secure authentication through OAuth authentication or API keys and implement data encryption and access control measures to protect sensitive data.
- Improved database query performance and system stability. The average query response time was reduced from 300ms to 150ms, and the
 number of transactions processed per second increased from 200 to 300 TPS.
- Reduce main thread blocking by handling background tasks with the asynchronous task queue Celery.

Datablau| Remote

China

Software Development | Business Cloud Management Platform

February 2024 - June 2024

- Based on Spring Boot, MyBatis, Redis, MQ and React, the commercial management cloud platform integrates project, listing, tenant, investment, contract and financial management functions to improve enterprise management efficiency.
- The login uses **JWT** token technology to achieve stateless single sign-on, replacing the original **session** sharing problem under the **cookie session** mechanism, and using **OAuth2** protocol to complete the third-party application authentication and authorization.
- Introduce Redis to cache frequently accessed data and build indexes for high-frequency query fields, reducing data query time from an average of 100ms to 20ms.
- Optimize RabbitMQ configuration, increase the number of consumer instances, and use batch processing technology. Increased throughput from 5000 messages per second to 10000 messages per second.
- Upgraded the project from Webpack4 to Webpack5, increasing build speed by 12s. To reduce loader and plugin syntax errors, use the check-updates upgrade package tool. Update merge, url-loader, chunkhash, file caching and other configurations afterward.

Rockwell Automation

San Jose, CA

Software Engineering Intern

May 2023 – July 2023

- Assisted in the rollout of the Enterprise Integration Center, integrating software into visual and low-code process editors to improve engineering efficiency.
- Enhanced the backend functionality of Datablau's metadata matching system by optimizing system integration and monitoring capabilities using Java, Python, Apache, ActiveMQ, Hawtio, and Spring Boot frameworks.
- Developed Redis client to control IP request rate, realize data persistence function, and complete product release 4 weeks ahead of schedule.

PROJECT

Oral Health Cloud Backend Management System

- A system based on Spring Cloud and Spring Boot and React developed to optimize data collection and quality management to form a complete health profile by establishing a full lifecycle oral health management platform for the community population.
- Optimized for Slow loading on first screen. By loading on demand, CDN introduction, and Gzip compression of resources, the loading time
 of the first screen was optimized from the initial 5200ms to about 800ms.
- Participated in the design and development of the privilege management module, combined with SpringSecurity to realize the security
 control of the system. Ensure that different user roles have appropriate permissions to protect the information security of the system.
- Upload large-size files (such as MP4 videos) using Multipart Upload to realize the functions of continuous uploading at breakpoints, retrying in case of errors, drawing progress bars, and pausing the upload. The upload time is reduced from 9-17s to 1-2s.
- Use Ant Design and ECharts to encapsulate 15+ public components (Regular Checksum, Table, Pagination, Dialog, Search Component, etc.), and write related documents for other projects to use.
- The search service adopts ElasticSearch to realize full-text search function, which achieves the effect of accurate and fuzzy query.

E-commerce Shopping Site

- Combining **Vue 3** and **Django 4**, the aim is to build a complete e-commerce platform. The project will cover a number of key features including product categorization, shopping cart, order management, user authentication and payment system.
- Analyzed page key performance indicators with Performance. Page performance was optimized by Anti-Shake and Throttling, Routing Lazy Loading, and Image Lazy Loading. Page FCP time was reduced from 3 s to within 1 s.
- Use vue-router navigation guards to implement validation of user login status based on token and use localStorage to solve the problem of vuex non-persistent storage.
- Combined with Mixins attribute, extract code with high reuse rate as public methods, reducing project code redundancy by 3000 lines.
- Processed model data using Django REST Framework (DRF) serializer to ensure data formatting and API fit.
- Reduced query response time from 10s to within 1s by SQL execution plan analysis to achieve reasonable use of indexes to improve query speed.