**Yueheng Yuan**

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**SUMMARY**

A motivated software engineer with experience in scalable web development, database management and algorithm design with Java and JavaScript. I am highly interested in the full-stack development and cloud solutions delivered by Oracle, and I aim to leverage my skills in a rotational program to drive innovation in e-commerce platforms.

**TECHNICAL SKILLS**

* Language: JavaScript, TypeScript, HTML/CSS, Python, Java, C/C++, Go, Ruby, Swift, R
* Framework & Tools: React, Vue, Angular, Flask, Django, Express, Node.js, Maven/Gradle, Spring Boot
* Databases & Cloud Services: PostgreSQL, MongoDB, MySQL, Redis, AWS, Docker, CI/CD, Git

**WORK EXPERIENCE**

**CLYNK** July 2024 – December 2024

*Software Developer*

* Developed and maintained a scalable web platform using **Vue3**, **TypeScript**, managing bottle recycling and invoices across multiple states, ensuring a seamless and scalable user experience
* Collaborated with product managers and analytical teams to implement interactive UI components
* Designed and developed **REST API** with **Node.js** and **PostgreSQL**, handling complex data processing challenges and ensuring frontend-to-backend communication
* Improved platform performance by **30%** by resolving critical performance bottlenecks; Implemented unit testing and continuous integration in a DevOps environment

**PROJECTS**

**GeneWeaver Backend System,** *geneweaver.org* August 2023 - December 2023

* Developed **REST API** for Jackson Laboratory using **Python** & **Flask** in **Scrum** environments
* Integrated analytical tools in microservices and mitigated downtime during tool update by **18%**
* Developed backend business logics including user authentication/sign-on and gene set upload; Performed data insertion and retrieval with **PostgreSQL** and **SQ-Lite**
* Optimize runtime performance on concurrent tasks using **Async** Python and recurrent analytical queries using **Page Caching**; Implemented secure data access point using HTTPS protocols & web authentication

**eCommerce Platform** May 2023 - December 2023

* Built up a **MERN** stack-based eCommerce platform; Developed and maintained software features to enhance customer engagement through front-end **UI** components, REST API services, and data modeling
* Designed data model using **MongoDB**; integrated **Mongoose** for query searching performance enhancement and **Redis** for schema definition; Leveraged **JWT** for API authentication and **Redux** Toolkit for state management
* Applied **Postman** for end-to-end testing and **Stripe** API for payment; Utilized **Heroku** for deployment & **CI/CD** pipeline for smooth deployment and continuous integration

**Online News Website** January 2023 - August 2023

* Developed and launched a web application for displaying popular trends from various sources using **Java** under the **Spring Boot** framework in **Agile** development cycles
* Implemented event streaming service using **Kafka** to transmit top trending videos based on views and kudos
* Incorporated **Redis** cache into backend service for distributed lock and query reduction
* Designed a backend notification system and stored data into **MySQl** database; Constructed a static HTML converter using Apache and Nginx with minimized loading time

**EDUCATION**

**Northeastern University** May 2025

*Master of Science in Computer Science, GPA: 4.0*