Yuchen(Olivia) Kuang

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EDUCATION

NORTHEASTERN UNIVERSITY, Portland, United State   Sept 2023 - Present
Master of Science in Computer Science (GPA: 4.0/4.0)

SHENZHEN UNIVERSITY, Shenzhen, China   Sept 2017 - Jun 2022
Bachelor of Architecture (5-year system)

PROFESSIONAL SKILLS

- Programming Languages: Python, SQL, Java, C, C#, JavaScript, Typescript, HTML5, CSS, SCSS, MATLAB
- Frameworks: React.js, Node.js, Django, Angular, Express.js, Vue.js, SpringBoot
- Other Tools: Git, Git hub, MongoDB, MySQL, Restful API, Unit Testing, Test-Driven Development

PROFESSIONAL EXPERIENCE

Convoloo , *Software Engineer (Internship)* |San Francisco, US   **Jun 2024 – Present**
- Designed and Developed a "**Integrated Policy Managment System**" using **Angular** for frontend and **Spring Boot** for backend, streamlining policy management and claims processing.
- Implemented secure document storage and retrieval by integrating AWS S3, enabling efficient handling of over 100,000 insurance documents, including unstructured files.
- Developed automated email reminders to keep users informed with timely notifications.
- Conducted comprehensive automated testing with Selenium to validate application functionality across different browsers, ensuring a stable and reliable user experience with a 95% test coverage.

SkillUpIT, *Back-end Engineer (Internship)* |Toronto, ON   **April 2023 – August 2023**
- Participated in planning and executing the "**Limited Time Discount & Buy Now**" business feature with **Java**.
- Improved throughput tenfold from thousands to tens of thousands QPS by integrating Redis and RocketMQ into the **MySQL** master-slave architecture for improved data flow.
- Split order service into discount and order microservices according to DDD(Domain Driving Design) principles.
- Enhanced test coverage from 60% to 85% by developing **unit tests** with **JUnit** and **Mockito**.
- Implemented **cache** preheating for active promotions with Redis and Lua scripts.
- Implemented "Pay-Check & Cancel" by consuming delay message.
- Peak-load shifting order service stress by asynchronously create order using RocketMQ.

SELECTIVE PROJECTS

Full-stack Social Media Application - Memories | *MongoDB, Express, React, Node*
A full-stack Social Media app using the **MERN (MongoDB, Express.js, React.js, Node.js)** technology stack. The app allows users to record interesting moments in their lives and supports features suach as login, posting memories, commenting, searching, and recommendations.
- Implemented **Test-Driven Development (TDD)** to increase code test coverage and enhance code quality. Introduced **CI/CD tools** to enhance development efficiency.
- Optimized **MongoDB** query performance by creating appropriate indexes and implementing pagination, resulting in a 41% reduction in query time.
- Implemented the **express-rate-limit rate limiting component** to protect the system and improve system stability.
- Utilized **DFA (Deterministic Finite Automaton)** algorithm for sensitive word filtering, reducing the content risk rate by 75%.

Personal E-Portfolio| *React, Node.js, Bootstrap, Express.js, Rx.js*
Created a dynamic and interactive web application designed to showcase my professional projects, and experiences.
- Deployed the E-Portfolio to Heroku, provided downloadable resources (PDF), dynamic typing effects with React Typical, and middleware in Node.js for efficient handling of requests and responses.
- Implemented interactive features such as a contact form using Node Mailer to securely send messages to my Google Email via Gmail SMTP.
- Utilized environment variables for authentication and ensured user input validation and error handling.