Zeke Z.
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Education

- **Johns Hopkins University** — Baltimore, Maryland
  Master of Science in Computer Science — *Aug. 2024 – Jan. 2026*
- **Xi'an Jiaotong University** — Xi'an, China
  Bachelor of Engineering in Computer Science; GPA: 3.81 — *Aug. 2020 – July. 2024*

Skills

- **Languages**: Java, Python, Javascript, Cpp, SQL
- **Technologies**: SprintBoot, MySQL, Redis, Django | HTML, CSS, React | Linux, AWS, Git, Docker

Experience

- **Huawei** — Xi'an, CN
  Software Development Intern — *June 2023 - Sep 2023*
  - Created a Fitness Check-in App with user management, activity tracking, social sharing, personalized recommendations, and secure backend integration. And wrote comprehensive unit and **integration testing** ensured system robustness.
  - Utilized indexing and query optimization techniques in **MySQL** to ensure query response times remained under 200 ms. Resolved issues such as **index invalidation** and optimized query plans, maintaining consistent performance even with over 3.65 million records.
  - Applied **multi-threading method** to optimize user experience by processing data asynchronously, reduced UI lag. Integrated with the application lifecycle to ensure tasks were properly triggered when running in the background.
- **Chinasoft International** — Xi'an, CN
  Full Stack Engineer Intern — *Dec 2022 - Feb 2023*
  - Developed a high-concurrency voting website, leveraging **RESTful** architecture to ensure scalability and efficient handling of large volumes of simultaneous user votes, achieving a QPS of 2000 during peak traffic.
  - Utilized **Spring Boot** for server-side development and **MyBatis** for efficient database interaction. Configured **HikariCP** connection pooling by reducing connectionTimeout and setting an appropriate maximum connection limitation, effectively minimizing overhead and reduced response times less than 200ms.
  - Integrated **Redis** caching for frequently accessed data, ensuring efficient data retrieval and system responsiveness. Implemented mutex locks to address issues of cache penetration and avalanche, maintaining stability under high concurrency.
  - Employed **Nginx** for load balancing. Optimized backend performance by integrating a thread pool (ExecutorService) to manage concurrent tasks, reducing server-side latency by 30% under high user traffic.
- **ACM/ICPC**: Gold medal in 2021-2022 International College Student Programming Competition The 10th Shaanxi Province Programming Competition.

Projects

- **Second-Hand Furniture Trading Web Application**: Developed a second-hand furniture platform with secure user authentication based on school email verification and **JWT** for identity proof. Enabled local trade matching via Location API to reduce shipping needs. Featuring real-time notifications and search filters. Deployed on **AWS** and have good response from users.
- **Super-Resolution Face Recognition Web Application**: Using **Django**, developed a web application using a **Transformer**-based algorithm for super-resolution face recognition, where users input low-resolution face images, and the system outputs high-definition images.