

Steven Zhu

Brooklyn, New York | zhujunhao1226@gmail.com | (929)-754-7166 | LinkedIn

EDUCATION

New York University <i>Master of Science in Computer Engineering</i>	Sept. 2024 – May 2026 (Expected)
University of Illinois at Urbana Champaign <i>Bachelor of Science in Computer Engineering</i>	Sept. 2020 – June 2024
Zhejiang University <i>Bachelor of Engineering in Computer Engineering</i>	Sept. 2020 – June 2024

SKILLS

- **Programming Languages:** Python, Java, C/C++, Javascript, TypeScript, HTML/CSS, SQL
- **Frameworks:** PyTorch, TensorFlow, React, Vue.js, Next.js, Spring Boot, Django
- **Tools:** Git, Docker, AWS, PostgreSQL, MongoDB, Google Cloud Platform (GCP)
- **Relevant Courses:** Data Structures and Algorithms, Machine Learning, Database System, Distributed System

WORK EXPERIENCE

ZTE Corporation - Zhongxing Development Ltd. <i>Software Engineer Intern</i>	June – Aug. 2024
<ul style="list-style-type: none">• Enhanced a microservices-based university entrance exam registration system by implementing five key features using Vue.js for front-end interfaces and Spring Boot for back-end services, optimizing the system to handle over 5,000 concurrent users with Nginx load balancing.• Designed and implemented RESTful APIs for database integration, using Redis for caching and JWT for authentication, reducing query latency and achieving response times under 30ms.• Integrated MinIO for efficient and secure file download management, establishing a download center that reduced page freezing issues and decreased waiting time by 30%.• Led bi-weekly machine learning knowledge-sharing initiatives, developing training materials and mentoring 20+ colleagues, resulting in three successful cross-team ML projects implementations.	

PROJECTS

GCP-Based Flight Query System <i>GCP, React, MongoDB</i>	Apr. – June 2023
<ul style="list-style-type: none">• Developed a predictive flight scheduling system using a US flight delays and cancellations dataset, improving efficiency by 30% and reducing delay risks by 15%. Employed machine learning models hosted on GCP and achieved 90% prediction accuracy.• Engineered a high-performance React frontend to analyze 29M+ flight records, implementing Redux for efficient state management and D3.js for interactive visualizations.• Optimized MongoDB database performance through strategic indexing and aggregation framework, resulting in 65% faster query response time and 35% reduction in CPU utilization.	
Cryptocurrency Tracker <i>Next.js, Node.js, PostgreSQL, Firebase</i>	Oct. – Dec. 2022
<ul style="list-style-type: none">• Architected and deployed a high-performance cryptocurrency analytics platform using Next.js and Material-UI, achieving 30% faster page load times through server-side rendering and code splitting optimizations.• Designed and implemented a scalable backend infrastructure with Node.js and PostgreSQL, achieving 100+ concurrent comment operations per minute.• Developed secure user authentication system with Firebase, implementing features like OAuth, email verification and password recovery, leading to successful onboarding of 1,000+ users.	
Meta-Sampling for Multimodal Sentiment Analysis <i>PyTorch, Machine Learning</i>	July 2021 – Jan. 2022
<ul style="list-style-type: none">• Tackled the challenge of partial missing modalities in multimodal sentiment analysis (MSA), enhancing the model's adaptability and robustness compared to traditional approaches that assume fully missing data.• Conducted extensive experiments on prominent datasets, including IEMOCAP, SIMS, and CMU-MOSI, achieving a 2-3% performance improvement over current state-of-the-art models.• Co-authored a paper titled "Missing Modality meets Meta Sampling (M3S): An Efficient Universal Approach for Multimodal Sentiment Analysis with Missing Modality," presented at ACL/IJCNLP 2022.	