## **Camille Chen**

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#### **Education**

### **Northeastern University**

Seattle, WA

MS, Computer Science. GPA: 3.93/4.0

January 2023 - December 2025

Courses: Algorithm, Web Dev, Databases, Cloud Computing, Distributed System, Machine Learning, Computer System, Network Skills: Java, JavaScript, TypeScript, Python, C/C++, React, Next, Node, SpringBoot, RESTful, Django, Redux, Valtio, Tailwind CSS Tools: MySQL, MongoDB, Redis, Kafka, RabbitMQ, Firebase, AWS, Docker, Kubernetes, Nginx, Figma, Ant Design, Playwright

## **Experiences**

## Xiaomi Technology **Frontend Engineer Intern**

Wuhan, China

May 2025 – August 2025

- Developed AI platform with TypeScript, React, Ant Design and aHooks, leveraging built-in hooks to accelerate development.
- Optimized Webpack configuration through advanced code splitting, dynamic imports, lazy loading, reducing initial load time.
- Architected scalable state management with Valtio for reactive UI updates and useSWR for intelligent data fetching with auto caching and revalidation, boosting API call performance.
- Reached 90% end-to-end test coverage with Playwright by integrating parallel test execution, cross-browser testing and snapshot testing. Integrated into CI/CD using Gitlab Actions, reducing test cycles duration while maintaining UI stability.
- Improved release efficiency with **Docker** containerization for **Node.js** applications, **Kubernetes** orchestration with autoscaling, rolling updates, health checks, and container registry management.

# **Peking University Institute for Computing and Digital Economy Software Engineer Intern**

Changsha, China

July 2024 - January 2025

- Developed Al-powered content generation platform with React, TypeScript, and Next.js, leveraging server-side rendering, static site generation, API routes, and middleware supporting 10+ daily active users for data labeling.
- Established reusable component library with 15+ encapsulated React components, reducing duplicate code by 40%.
- Implemented streaming LLM responses via WebSocket, enabling real-time content preview as AI generates output.
- Improved MySQL efficiency by implementing composite indexing, query optimization, read replicas and database sharding, reducing query execution time by **20%**.
- Configured Nginx reverse proxy with caching layer and dual-environment routing for staging/production deployments.

# A Round Entertainment **Software Engineer Intern**

Jersey City, NJ December 2023 - March 2024

- Implemented Mapbox-based map view allowing users to browse properties by location and apply real-time filters.
- Integrated Whisper AI-powered voice search functionality with advanced speech-to-text processing, Natural Language Processing (NLP) for query understanding, intent recognition algorithms, semantic search capabilities.
- Designed scalable Google Firebase backend with microservices architecture, handling real-time updates for 500+ concurrent users with Firebase Authentication and Firebase Realtime Database.

#### **Projects**

### **Full Stack Django E-commerce Website**

July 2024 – December 2024

- Deployed on Heroku utilizing EC2 compute with auto-scaling groups, S3 object storage for static assets and user-uploaded media files, RDS managed PostgreSQL database with automated backups and multi-AZ deployment for high availability.
- Implemented JWT (JSON Web Token) and Role-Based Access Control authentication with granular user roles.

#### **Realtime Data Processing**

February 2023 – May 2023

- Designed and implemented scalable distributed system using Java, Spring Boot, Apache Kafka, and MySQL with event-driven architecture, enhanced system performance by 30% using **Redis** caching, **MySQL** query optimization.
- leveraging Apache Kafka architecture with consumer groups for parallel processing, and dead letter queues for error handling.
- Applied solid principles, design patterns (Factory, Singleton, Observer), dependency injection, comprehensive unit testing with JUnit, integration testing with **Mockito**, and containerized deployment with Docker.