

Xinyi Xie

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EDUCATION

Duke University **Aug 2023 - May 2025 (Expected)**
Master of Science in Electrical & Computer Engineering (Software Development), GPA: 4.00/4.00 *Durham, NC*

China Agricultural University **Sep 2019 - Jun 2023**
Bachelor of Engineering in Computer Science, GPA: 3.74/4.00 *Beijing, China*

SKILLS

Languages: Python, C, C++, Java, SQL, JavaScript, TypeScript, HTML/CSS, C#, R, MATLAB, Verilog

Frameworks: Vue.js, React, React Native, Spring Boot, Bootstrap, Node.js, Express, Flask, Django, MyBatis, OpenCV, TensorFlow

Databases/Tools: MongoDB, PostgreSQL, MySQL, SQLite, Git, SVN, Maven, Postman, JMeter, Playwright, Figma, Linux, Docker, Kubernetes, Nginx, Gitlab CI/CD

Certificate: AWS certified Cloud Practitioner

WORK EXPERIENCE

Ant Group **May 2024 - Aug 2024**
Software Engineer Intern *Shanghai, China*

- Implemented a real-time monitoring tool with Spring Boot, MyBatis and SLS SDK, tracking response time of RPC, MSG, and DB operations, and reporting outliers automatically, enabling users to identify and address issues proactively, enhancing performance analysis accuracy and reducing incident resolution time
- Added **40+** integration tests to the parameter management system utilizing JVM Sandbox, increasing code coverage by **35%** and improving overall system reliability
- Developed a security inspection tool to minimize product impacts when migrating large-scale projects, leveraging RPC/MSG content reorganization, and log verification through SLS SDK, resulting in a **30%** increase in error detection accuracy and significantly reducing migration-related risks

NEW EIC **Mar 2024 - May 2024**
Software Engineer Intern *Remote, US*

- Contributed to a full-stack educational management system with a decoupled front-end and back-end using React, TypeScript, Node.js, Express, and MongoDB. Created student and teacher management pages, and implemented **10+** Express API routes
- Managed and validated forms using React Hook Form to ensure data integrity and user-friendly interactions
- Coordinated with a cross-functional team to design and document API endpoints, streamlining communication and reducing onboarding time for new developers. Managed source control and code reviews via Git, contributing over **5** high-impact pull requests that resolved critical issues and added new features

Easthome Co., Ltd **Feb 2023 - Mar 2023**
Software Engineer Intern *Beijing, China*

- Led a team of **6** to develop a WeChat mini program with Scrum methodology and Git, streamlining job recruitment and applications for migrant workers in urban areas
- Introduced in-app calling functionality to allow users to call employers for inquiries using UniCloud, JavaScript-based cloud functions, and MongoDB, reducing miscommunication between employees and employers, and implemented Vue.js for the frontend with ECharts for data visualization

PROJECTS

CampusCycle (*MongoDB, Express, Vue.js, Node.js, TypeScript*) **Mar 2024 - Apr 2024**

- Developed a campus second-hand products marketplace to enable students to buy and sell used items using Vue 3, Bootstrap Vue, and TypeScript for the frontend. Created RESTful APIs with Express and MongoDB. Conducted API and end-to-end testing using Postman and Playwright for functionality and system stability
- Integrated GitLab OIDC for user authentication and role-based access control to enhance security and manage user permissions
- Utilized GitLab CI/CD pipeline for automated deployment and testing, and Docker and Kubernetes for efficient and scalable service deployment, improving development efficiency and production environment maintainability

Mini-Amazon (*Python, Flask, PostgreSQL, Socket, Protocol Buffer, Multi-threading*) **Mar 2024 - Apr 2024**

- Designed and implemented a full-stack web application simulating Amazon's purchasing and delivery workflow using Flask and PostgreSQL, integrated with a world-simulator and Mini-UPS server
- Optimized server communication efficiency through multi-threaded backend architecture, leveraging Socket and Google Protocol Buffers for efficient message exchange between servers