

ZHUOYANG SUN

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EDUCATION

Purdue University	Aug 2025 (Expected)
Master of Science in Computer Engineering & Computer Graphics (GPA: 3.95 / 4.00)	West Lafayette, IN
Tongji University	Jul 2023
Bachelor of Science in Computer Science (GPA: 89.00 / 95.00)	Shanghai, China

INTERNSHIP EXPERIENCE

Zoom	Jun 2024 – Aug 2024
QA Engineer Intern	Hangzhou, China
<ul style="list-style-type: none">Developed and implemented an automated testing pipeline for Zoom Docs using Python, Selenium, and GitLab CI, reducing manual testing efforts by 60% and increasing test coverage by 40%. This automation significantly decreased repetitive tasks such as creating, deleting, or modifying large numbers of documents.Authored over 50 test automation scripts in Jenkins, automating 30% of previous test scenarios, which enhanced test coverage, improved efficiency, and reduced human error in testing processes.Utilized Git for version control and collaborated with cross-functional teams through Confluence for documentation, ensuring clear communication of requirements among product managers and engineers across different locations (Hangzhou, Wuhan, San Jose). Effectively coordinated across different time zones and cultural contexts to align development and QA efforts.Conducted extensive API testing within a team of 30, using Jira to report and track over 150 bugs, detecting at least 1-3 bugs per test requirement. Contributed significantly to improving the overall stability and performance of the product.	
Nio	Feb 2023 – May 2023
Software Engineer Intern	Shanghai, China
<ul style="list-style-type: none">Spearheaded the redesign of the error tracking system from a stage-to-stage to a step-by-step approach, reducing debugging time by 30% and significantly enhancing engineer productivity.Implemented an automated message validation system using Python and Bash scripts integrated into the GitLab CI/CD pipeline, ensuring data accuracy for new packages and supporting over 1,000 batch-run tests, which reduced manual verification efforts by 40%.Enhanced the platform’s search capabilities by integrating Elasticsearch APIs, enabling complex queries that expanded road-test data accessibility for both city and highway scenarios, thereby improving test scenario construction efficiency by 25%.Diagnosed and resolved critical logical issues in the log system, resulting in a 10% reduction in log errors and improving overall system reliability.	

INDEPENDENT PROJECTS

Intelligent Note-Taking Application	Oct 2024
Personal Project	
<ul style="list-style-type: none">Developed a full-stack note-taking app with automatic note classification and advanced search functionality.Implemented backend using Python and FastAPI, integrating LangChain to support multiple LLM APIs (ChatGPT, Claude, Ollama) for AI-driven categorization and retrieval.Built frontend with React and Material UI; utilized MongoDB for data storage.Deployed application on Amazon EC2, ensuring scalability and accessibility.Reduced manual note organization time by 35% and enhanced retrieval efficiency by 50% through AI-powered features.	

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, C++, C#, R, PHP, Golang
Technologies: AWS EC2, AWS S3 Bucket, K8s, Docker, Jenkins, Jira, Git, Gitlab CI, Selenium, Pytest, React, Spring Boot, Angular, Grafana, Linux, PostgreSQL, MongoDB, MySQL, Microsoft SQL Server, Vim, Elasticsearch, Microsoft Visual Studio, OpenGL, Cuda, Confluence, Vue, Flask, .Net, Node.js, PyTorch, LangChain, Unreal5, GNU Debugger, Tableau