

<b>Brown University</b> Master of Science in Computer Science; GPA: 3.86	Providence, RI 08/2023 – 05/2025
<b>Duke University / Duke Kunshan University</b> Bachelor of Science in Data Science; GPA: 3.84; Graduated with Senior Honor • Publications: ACM Multimedia 2022, Applied Intelligence 2023, ChinaVis 2022	Durham, NC 08/2019 – 05/2023

TECHNICAL SKILLS

<b>Languages:</b> Java, Python, JavaScript, TypeScript, HTML, CSS, C + +, C#, Golang, SQL, NoSQL, PHP
<b>Frameworks:</b> React, Redux, Angular, Vue, Next.js, Express.js, Spring, Django, Flask, PyTorch, GraphQL
<b>Tools:</b> Kubernetes, MySQL, Spark, Flink, Node.js, Redis, MongoDB, Docker, ArgoCD, Git, Jest, Selenium

EXPERIENCE

<b>Microsoft</b> Software Engineer Intern • Designed and implemented a backend <b>LLM</b> workflow in <b>TypeScript</b> to suggest theme images from a resource library based on survey titles, achieving a 10% increase in user adoption through A/B testing. • Developed core <b>React</b> components for Microsoft Forms Copilot, enabling grounding file reference, file sensitivity alerts, and integration with OneDrive to streamline the AI-assisted survey creation process. • Implemented query caching in <b>Redux</b> , reducing loading time from 2000ms to near-instant for cached results. • Resolved 20+ accessibility issues with improved keyboard experience. Ensured compliance with WCAG standards.	04/2024 – 08/2024 On-site
<b>Brown University Library</b> Software Engineer Intern • Revamped <b>Angular</b> components for Library Discovery System and integrated analytic tools for telemetry. • Led critical upgrade for a website from <b>PHP</b> v5 to v7, reducing security vulnerabilities by modernizing deprecated modules and rewriting <b>SQL</b> queries, thereby enhancing site performance and user security.	09/2023 – 04/2024 Hybrid
<b>Microsoft</b> Support Engineer Intern • Co-developed a Teams Bot in <b>C#</b> and <b>TypeScript</b> , streamlining workflow automation on IcM and cutting manual task allocation by 40%, earning recognition at Microsoft Hackathon 2022. • Engineered a dashboard to provide real-time insights into employee skill levels, optimizing resource management and reducing decision-making time by 30%.	07/2022 – 10/2022 On-site
<b>China Unicom</b> Software Engineer Intern • Maintained the ETL data pipelines in <b>Java</b> which processes millions of users' behavior metrics daily. Improved data reliability by schema validation and feature engineering for the <b>recommender system</b> , which led to a 20% increase in user conversion rates and a 15% boost in product revenue. • Optimized performance of <b>Flask</b> backend through multi-threading and caching techniques, significantly enhancing API throughput and reduced the user interaction response time <b>from 1200ms to 400ms</b> .	06/2021 – 08/2021 On-site

PROJECTS

<b>Insta-UI: LLM-based UI Code Generator (GitHub Repo: junkaiman/ui-generator)</b> • Lead development of Insta-UI, a low-code platform that generates UI code snippets from user prompts and conversations, enabling rapid prototyping and development of web applications for UI/UX designers. • Automated CI/CD pipeline using <b>GitHub Actions</b> and branching strategies to ensure code quality and deployment readiness, reducing manual intervention by 80%. • Utilized <b>IndexedDB</b> and <b>Dexie.js</b> for local storage for efficient data management and offline access, ensuring inputs are saved and restored across sessions.	09/2024 – Current
<b>Gallinula: All-in-one Campus Experience App</b> • Developed Gallinula.com, a campus-life application with 400+ daily active users. Utilized Mastodon and <b>MongoDB</b> for backend, and crafted a responsive front-end in <b>Next.js</b> and <b>Tailwind CSS</b> , ensuring an optimal user experience. • Decoupled the monolithic architecture into <b>microservices</b> , enhancing system scalability and maintainability, and optimized the CI/CD process using <b>Kubernetes</b> and <b>ArgoCD</b> , reducing manual maintenance costs by 80%. • Engaged nearly <b>50%</b> of Duke Kunshan University's student population as active users, storing over 18,000 posts and replies, indicating high platform relevance and user retention.	05/2020 – 05/2023