

Kevin Lin

linkedin.com/in/04klin • github.com/04klin • 2004klin@gmail.com • [Secret Clearance]

Education

North Carolina State University	Raleigh, NC
<i>Bachelor of Science in Computer Science, GPA: 4.0</i>	<i>May 2026</i>
Coursework: Data Structures & Algorithms, Network Security, Operating Systems, Computer Networking, Parallel Algorithms, Software Design, Intro to AI, Self-driving Cars, Web App Computing	

Skills

- **Languages:** Java, TypeScript, JavaScript, Python, Rust, C, HTML, CSS
- **Frameworks:** React, Spring, Pytest, Angular, Tailwind, Jest
- **Technologies:** Docker, Git, JUnit, MongoDB, MySQL, GitHub, Linux, AWS Lambda and DynamoDB
- **Concepts:** Object-Oriented Programming, Microservices, API, TCP/IP

Experience

Software Engineer Intern	Morrisville, NC
Owl Cyber Defense <i>Python, Pytest, Typescript, Podman, Rust</i>	<i>June 2025 – Present</i>

- Developed a VS Code extension that simplified ways to create, view, execute, and troubleshoot component tests; Adopted by VS Code users on the team and achieved a **100%** satisfaction rate
- Improved robustness of CI/CD pipeline by rewriting critical Go test utility tools in Rust
- Improved developer experience by enhancing the Pytest component test runner with automated metadata generation, targeted test execution, and nested test case path support
- Expanded the XML data filter component test suite by over **20x** with **70** new test cases

Software Developer Intern	Albuquerque, NM
Sandia National Laboratories <i>NextJS, Tailwind CSS</i>	<i>May 2024 – Aug 2024</i>

- Developed modular Next.js components to visualize reference connections, reducing average search time
- Implemented condensed/expanded chat responses, offering users control over detail density
- Designed **5+** wireframes detailing layouts made for more intuitive navigation and content display
- Boosted test coverage to over **80%** with Jest, ensuring reliability and minimizing bugs through unit testing

Research Intern	Raleigh, NC
North Carolina State University <i>MongoDB, ExpressJS, ReactJS, NodeJS</i>	<i>May 2023 – Apr 2024</i>

- Designed and implemented a plant disease detection web app, React frontend for data submission of plant photos and object detection and an Express backend server to process image data, for a proof of concept
- Added user authentication and image storage features using MongoDB

Projects

Github Commit History Replay <i>Typescript, React, Java, Spring, PostgreSQL, Docker</i>	<i>Jan 2026 – Present</i>
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- Collaborated with a 6-person team to design and implement a full-stack app to step through commit histories of a file, solving issue of teaching staff not knowing what students have already tried in their coding assignments

Liquid Rocketry Lab @ NCSU - Subteam Lead <i>Typescript, React, Python, Flask, Docker</i>	<i>Sept 2023 – Present</i>
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- Led a team of **4** to maintain and develop new features for the mission control platform using agile methodology
- Led the development of a feature to monitor **10+** unique events, improving real-time data visibility
- Enhanced **10+** UI components which contribute to safer tests
- Redesigned backend event system architecture to improve data reliability and decrease code complexity