

Kevin Lin

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Education

North Carolina State University

Raleigh, NC

Bachelor of Science in Computer Science, GPA: **4.0**

May 2026

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 | *Python, Pytest, Typescript, Podman, Rust*

June 2025 – Present

- 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 | *NextJS, Tailwind CSS*

May 2024 – Aug 2024

- 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 | *MongoDB, ExpressJS, ReactJS, NodeJS*

May 2023 – Apr 2024

- 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 | *Typescript, React, Java, Spring, PostgreSQL, Docker*

Jan 2026 – Present

- 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 | *Typescript, React, Python, Flask, Docker*

Sept 2023 – Present

- 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