Kevin Lin

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EDUCATION

NORTH CAROLINA STATE UNIVERSITY   **Raleigh, NC**

*B.S. degree in Computer Science. **GPA: 4.0***   *Aug 2022 - May 2026*

Relevant Courses: Data Structures & Algorithms, Network Security, Operating Systems, Computer Networking, Parallel Algorithms, Software Design, Intro to AI, Self-driving Cars

EXPERIENCE

SOFTWARE ENGINEER INTERN   **Morrisville, NC**

Owl Cyber Defense | *Pytest, Typescript, Shell, Podman, Rust*   *June 2025 - Present*

- Developed a VS Code extension that simplified ways to create, view, execute, and troubleshoot component tests
- Adopted by the team and achieved a **100%** satisfaction rate
- Expanded the XML filter component test suite by **over 20x** adding **70** new test cases
- Enhanced the existing component testing framework with **3 new features**: autogenerated metadata, selective test execution, and subfolder test case organization; improved developer experience
- Consolidated legacy Go network utility repositories into a single repository, now written in Rust

SOFTWARE DEVELOPER INTERN   **Albuquerque, NM**

Sandia National Laboratories | *ReactJS, NextJS, Tailwind CSS*   *May 2024 - Aug 2024*

- Developed modular UI components using **Next.js**, enabling graphical display of topic interconnections of references and improving user navigation
- Implemented condensed/expanded information blocks, increasing user satisfaction and experience
- 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 a **React.js** front-end allowing intuitive user input and data submission
- Utilized **Node.js** to build a backend server and REST API**s** to handle HTTP requests, process image data, and securely authenticate users
- Integrated yolov5 into the web app for object detection

CAMPUS INVOLVEMENT

- **Liquid Rocketry Lab** (LRL) - Principal Engineer   *Sept 2023 - Present*
  - Led 3 junior developers to maintain and develop mission control software 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
- **Society of Asian Scientists and Engineers** (SASE) - Member   *Feb 2023 - Present*
  - SASE Connect 2023, SASEHACK

TECHNICAL SKILLS

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