

Kevin Lin

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EDUCATION

- **Virginia Polytechnic Institute and State University** Blacksburg, VA
Bachelor's of Computer Science; Overall GPA: 3.8 / Major GPA: 3.9 Aug 2022 - May 2025
- **Virginia Polytechnic Institute and State University** Alexandria, VA
Masters of Engineering — Computer Science Aug 2025 - May 2026

SKILLS SUMMARY

- **Programming Languages:** Python, Java, C++, C, HTML
- **Frameworks & Tools:** React, Flask, Node.js, Express, TypeScript, SQLAlchemy, MongoDB, MySQL, SQLite, Git, VS Code, PyCharm
- **Concepts & Practices:** Agile Development, REST APIs, Full-Stack Development, Database Design
- **Soft Skills:** Team Collaboration, Problem-Solving, Communication

EXPERIENCE

- **CodeKids Project(Dr. Hamouda)** March 2024 - Current
Undergraduate Researcher
 - Created educational books to teach kids Computer Science and various STEM related subjects, focusing on breaking down complex topics into manageable chunks.
 - Developed special coding activities and interactive lessons with themes to enhance understanding and engagement.
 - Collaborated with educators to integrate these materials into their curriculum and then taking in their feedback to improve the books
 - Implemented interactive web based exercises to reinforce learning and track progress
- **Pathways for Future Engineers Program** April 2023 – August 2023
Project Coordinator
 - Designed engineering activities for 150+ first-generation students and guided prototype development.
 - Led sessions on Arduino basics and troubleshooting to improve participants' designs.

PROJECTS

- **Virginia Tech Corps of Cadet Alumni Database**
React, Node.js, MySQL, Express, VT CAS
 - Led development of a comprehensive web application for the Virginia Tech Corps of Cadets to centralize communication and improve information accessibility for current members and alumni
 - Implemented role-based access control system to ensure users could only view and modify content appropriate to their position within the organization
 - Designed and built an advanced search functionality with multiple filtering options (name, class year, location, unit, degree) for efficient member directory navigation
 - Integrated Virginia Tech CAS authentication system to securely manage user access and verify Corps of Cadets membership status
 - Created an administrative dashboard with user management capabilities including bulk import functionality and activity monitoring
- **Hokie Marketplace**
Flask, Python, React, TypeScript, MySQL
 - Designed and implemented an exclusive online marketplace for Virginia Tech students, providing a secure platform for campus-based transactions.
 - Developed back-end functionality using Python and Flask to manage server-side operations and optimize SQL query handling.
 - Utilized SQLite during development for rapid testing and transitioned to MySQL in production for scalability and reliability.
 - Integrated SQLAlchemy ORM to streamline database interactions and bridge the gap between the database and the application code.
 - Built a responsive, user-friendly interface using React and TypeScript, ensuring a scalable and maintainable front-end architecture.
 - Adopted Agile practices to manage project workflows, deliverables, and collaboration across the development team.
- **Work Wise**
MongoDB, Express, React, Node.js
 - Collaborated with a 5-member team to design and develop a robust employee management system using Agile methodologies.
 - Built an intuitive front-end interface with React and a scalable back-end using Node.js.