

# Ken Lin

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## EDUCATION:

**Stony Brook University, Stony Brook, NY**  
*Bachelor of Engineering in Computer Engineering*

**Expected Graduation: May 2025**  
GPA: 3.59/4.0

## PROJECTS:

### Smart Swim Buoy

**Sept 2024 - Present**

- Designed an intuitive and visually appealing UI in Figma and implemented it using React Native and Tailwind CSS for a seamless user experience.
- Developed a full-stack application using MongoDB, Express.js, React Native, and Node.js (MERN stack) to manage user authentication and store swim workout data.
- Engineered a microcontroller system integrating GPS, accelerometer, and temperature sensors, enabling real-time data collection and Bluetooth communication with the app.

### Steam Game Reviews NLP

**Aug 2024 - Dec 2024**

- Built a machine learning model in Python to classify Steam game reviews as positive or negative using NLP techniques, including tokenization, lemmatization, stop-word removal, and TF-IDF.
- Collected a balanced dataset of ~10,000 reviews (50% positive, 50% negative) using the Steam API for unbiased training.
- Achieved 80–90% classification accuracy on mixed-review datasets.

### YouTube Clone

**Jun 2024 - July 2024**

- Developed a clone of the YouTube interface using HTML and CSS, focusing on replicating its design.
- Incorporated Flexbox and CSS Grid for layout structuring, balancing functionality, and visual appeal.
- Ensured cross-browser compatibility and adhered to best practices for semantic HTML and modern CSS techniques.

### Sprout Spot

**Jan 2024 - May 2024**

- Created an Android app with a user-friendly interface that allows users to set plant-watering timers, diagnose plant issues via a form, and ask plant-related questions through an integrated ChatGPT AI feature.
- Utilized Firebase, a cloud-based storage, for features on the app such as login credentials, plant timers, and forums.
- Integrated push notifications to remind the users when it's time to water their plants and update them with new forum posts.

## WORK EXPERIENCE:

### New York City Department of Design and Construction - Project Management Intern | Queens, NY

**Jul 2024 - Aug 2024**

- Assisted with documenting project scope, timelines, and budgets, maintaining consistency in project planning records.
- Meticulously reviewed project documents to ensure accuracy and completeness of contracts, routing sheets, and payments.
- Utilized project management software (PIMS and PDMS) to track project milestones, documentation, and deliverables, enhancing project visibility and streamlining project progression.

### JAB Industries Inc - Project Management Intern | Queens, NY

**Jul 2023 - Aug 2023**

- Collaborated with cross-functional teams to support project planning and execution, contributing to the successful coordination of resources, schedules, and budgets for diverse construction endeavors.
- Assisted in conducting site inspections and quality control assessments, ensuring adherence to industry regulations and project specifications, while actively participating in the resolution of on-site challenges.
- Skillfully managed project documents, progress reports, and correspondence, enhancing communication effectiveness and optimizing project tracking efficiency within the construction management framework.

### Stony Brook University - Undergraduate Teaching Assistant | Stony Brook, NY

**Jan 2023 - May 2023**

- Supported an engineering course in C programming covering core concepts like bitwise operations, file scanning, stack-based computation, finite state machines, hash tables, and linked lists.
- Clarified misconceptions and answered any questions the students may have on the material being presented.
- Conducted lab sections consisting of 20 students, 3 hours per week that supplemented a lecture course to further develop students' understanding.

## SKILLS:

- Programming Languages:** JavaScript, C/C++, Embedded C, Java, Lua, Python, VHDL, AVR Assembly
- Web Development:** HTML, CSS, TailwindCSS, React Native, Node.js
- Software & Tools:** Git, Figma, Photoshop, Blender, ORCAD
- Office Software:** Microsoft Office (Excel, Word, PowerPoint), Google Workspace, Zoom, Teams