Kevin Y. Cai

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PROFESSIONAL SUMMARY

Dedicated Penn State Computer Science major with a strong foundation in software development and systems programming. Proven ability to lead cross-functional teams while implementing innovative technical solutions.

EDUCATION EXPERIENCE

The Pennsylvania State University   **University Park, PA**
Bachelor of Science in Computer Science   **Expected: Spring 2026**
Minor in Mathematics   **GPA:** 3.20
Coursework: O.O.P. with Web-Based Applications, Systems Programming, Data Structures and Algorithms, Programming Language Concepts, Operating Systems

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SKILLS

Programming: JavaScript, TypeScript, CSS, Swift, SQL, HTML, Java, Python, C/C++/C#
Applications: Node.js, Next.js, React, Angular, SwiftUI, PyTorch, NumPy, scikit-learn, Core ML, Git, Xcode, VScode
Operating Systems: Linux (Ubuntu), UNIX, Microsoft Windows, MacOS, iOS/iPad OS
Languages: English (Native), Chinese (Fluent), French (Conversational)

PROJECT EXPERIENCE

Relevant Projects: JavaScript | TypeScript| SQL | Java | Python   **Fall 2022 – Spring 2025**

- *Subscription Tracker:* Programmed a fully functional web application with database integration for keeping track of subscriptions and calculating the totals charged, utilizing Next.js and React for site maintenance.
- *Class Scheduler*: Developed an interactive Java-based application, complete with user-friendly GUI and backend database integration, to streamline class-scheduling process whilst providing administrative insights.

WORK EXPERIENCE

HackPSU: Contestant   **Spring 2025**

- Designed an award-winning Augmented Reality project "LiDARcade" for iOS during a 24-hour hackathon.
- Collaborated with a team of 5 to solve the Penn State Institute of Computational and Data Science LiDAR challenge. Utilized Swift, and SwiftUI for Frontend development and ARKit for LiDAR support.

Penn State NittanyAI Machine Learning Club: Student Developer   **Fall 2023 – Fall 2024**

- Constructed projects such as a stock market prediction model that achieved prediction accuracy of 90.24% and a functional chatbot that delved into real-world problem-solving, working both solo and in teams of 2-4.

TEDxPSU: Developer   **Fall 2022 – Spring 2023**

- Selected to work with a team of 12 other TEDx members as a part of the organization's technology team.
- Utilized Angular and TypeScript Full-Stack development for the development of the organization's website.

LEADERSHIP EXPERIENCE

Penn State NittanyAI Leadership Camp: Team Leader   **Fall 2023 – Fall 2024**

- Represented a team of 8 students in pitching the startup concept "SafeSail" to a panel of company representatives, securing a top position and gaining project management experience in the process.