Kevin Yu

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Skills

- **Languages:** JavaScript, TypeScript, Python, Svelte, Vue, HTML, CSS, SCSS, Java, Kotlin, C#, Haskell, Elixir, Go, Rust
- **Frameworks / libraries:** React, Vite, TailwindCSS, NextJS, NuxtJS, SvelteKit, OpenCV, NumPy, Matplotlib, ROS2

Work Experience

Frontend developer, Campus Ventures LLC, West Lafayette, IN   *Jan 2024 - present*
Developed Next.js application for student startup aggregating flight and airport shuttle data across 3+ midwest colleges.

Teaching assistant, MIT Beaver Works Summer Institute, Cambridge, MA   *Jun - Aug 2024*
Mentored students on control theory / robotics topics. Designed dynamic obstacles for final grand prix event. Co-authored end-of-course student research projects.

Intern, Stanford Geballe Laboratory for Advanced Materials, Palo Alto, CA   *July - Aug 2023*
Developed multithreaded image-processing algorithms to detect and classify graphene flakes in 20GB+ microscope scan datasets.

Projects

MITRE embedded CTF 2024   *Jan - May 2024*
Developed automated attack / build systems for a secure embedded medical device as part of the Purdue team for eCTF 2024. Won 3rd place overall.

WATT   *Aug 2022 - June 2023*
Schedule app with LMS integration featuring alternate schedule parsing, club sign-in, and student ID barcodes used by 1300+ students. Built using Vite + React + Firebase (auth / functions / database).

Organizations

Purdue Capture the Flag Team (b01lers)   *Aug 2023 - present*
Competed in "Capture The Flag" cybersecurity competitions on the Purdue CTF team (ranked 7th nationally). Developed cybersecurity challenges for b01lers CTF. Achieved first place in iCTF 2023.

Gunn Robotics Team, Controls & Webmaster   *Aug 2021 - June 2023*
Programmed and wired robot control mechanisms for FIRST Robotics Competition team 192 (incl. visionless turret locking, swerve drive control) over 430 out-of-school shop hours. Rebuilt organization website as webmaster.

Education

Purdue University, West Lafayette, IN   *Aug 2023 - Dec 2025 (expected)*
First year student working towards a B.S in Computer Science Honors
GPA: 3.95

References available on request.