

Kevin Yu

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Skills

Languages: JavaScript, TypeScript, Python, Svelte, Vue, HTML, CSS, SCSS, Java, Kotlin, C, C#, Haskell, Elixir, Go, Rust

Frameworks: React, Vite, TailwindCSS, NextJS, NuxtJS, SvelteKit, OpenCV, NumPy, Matplotlib, ROS2, Postgres, Prisma ORM

Work Experience

Undergraduate teaching assistant, Purdue CS dept, West Lafayette, IN *Jan 2025 - present*
Held weekly office hours / PSO sessions for CS 18200: discrete mathematics.

Frontend developer, Campus Ventures LLC, West Lafayette, IN *Jan - Oct 2024*
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 project.

Intern, Stanford Geballe Laboratory for Advanced Materials, Palo Alto, CA *July - Aug 2023*
Prototyped 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 *Nov 2020 - 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

Webmaster, 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 infrastructure & created cybersecurity challenges for b01lers CTF.

Controls & Webmaster, Gunn Robotics Team *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.

Education

B.S. in Computer Science Honors w/ Math Minor, Purdue University *Aug 2023 - May 2026 (exp.)*
Concentrations: Machine Intelligence, Programming Language
GPA: 3.96