Kevin Yu

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Skills

Languages: JavaScript, TypeScript, Python, HTML, CSS, Java, Kotlin, C, Haskell, Elixir, Go, Rust

Tools / frameworks: Git, Docker, React, Vite, Express, TailwindCSS, NextJS, Vue, SvelteKit, OpenCV, NumPy, Matplotlib, ROS2, PostgreSQL, Prisma ORM, AWS (S3, EC2, RDS)

Work Experience

Full stack developer, Center For AI Safety, San Francisco, CA (remote)   *Jun - Aug 2025*
- Developed Express.js backend & evaluation features for an online AI deliverables evaluation platform
- Built React file-rendering capability for PSD, CAD, MS Office, Jupyter Notebook, & APKG file formats
- Hosted comparisons for 800+ S3 tasks in partnership with Scale AI

Frontend developer, Campus Ventures LLC, West Lafayette, IN   *Jan - Oct 2024*
- Constructed full-stack Next.js application for student startup aggregating flight and airport shuttle data for 1k users across 3+ midwest colleges
- Architected itinerary selection & booking UI, flight scraping / shuttle matching backend logic

Teaching assistant, MIT Beaver Works Summer Institute, Cambridge, MA   *Jun - Aug 2024*
- Mentored class of 20 students on control theory / robotics topics (PID, object detection, computer vision)
- Co-authored student research project (aggregating LIDAR scans to navigate in foggy conditions)
- Designed & programmed Arduino ProMicro-controlled dynamic obstacles for grand prix event

Intern, Stanford Geballe Laboratory for Advanced Materials, Palo Alto, CA   *July - Aug 2023*
- Prototyped and optimized multithreaded Python / OpenCV algorithms to detect and classify graphene flakes in 20GB+ microscope scan datasets
- Achieved ~10x speedup in flake labelling compared to existing algorithm

Projects

b01lers CTF platform   *Jan - Apr 2025*
- Rebuilt and maintained Next.js frontend / backend infrastructure for Purdue's cybersecurity competition
- Designed web security and reverse engineering challenges attempted by 400+ teams worldwide

MITRE embedded CTF   *Jan 2024 - Apr 2025*
- Developed automated attack & build infrastructure for secure embedded devices
- Scored 18 automated hacks (5 before any other team) for 3rd place finish in 2024, 2nd place in 2025

WATT   *Nov 2020 - June 2023*
- Schedule app with LMS integration, alternate schedule parsing, club sign-in links, and ID barcode generation used by 1300+ students
- Built Vite + React frontend with Firebase (auth / functions / database) backend

Organizations

Webmaster / President, Purdue Capture the Flag Team (b01lers)   *Aug 2023 - present*
Led the Purdue CTF team in competing in "Capture The Flag" cybersecurity competitions (ranked 5th nationally).

Education

B.S. in Computer Science Honors w/ Math Minor, Purdue University   *Aug 2023 - May 2026 (exp.)*
Concentrations: Machine Intelligence, Programming Language
TA for CS 182: Foundations of CS (class size 800) | GPA: 3.96 | Deans list and semester honors x4