

# Kevin Yu

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## Skills

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

**Tools / frameworks:** Linux, 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 & React frontend for an online AI deliverables evaluation platform
- Built integrated file-rendering capability for PSD, CAD, MS Office, Jupyter Notebook, & APKG file formats
- Hosted comparisons for 800+ tasks on S3 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 monolayer graphene flakes in 20GB+ microscope scan datasets
- Achieved ~10x speedup in flake labelling compared to existing DBSCAN-based algorithm

## Projects

**b01lers CTF platform** *Jan 2024 - 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

**Infrastructure lead, MITRE embedded CTF** *Jan 2024 - Apr 2025*

- Developed automated attack & CI build infrastructure for secure embedded devices
- Integrated bot pipeline pulling, building, & distributing target images to attack Raspberry Pis / Slack endpoint
- 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