Kevin Yu

kevinyu567@gmail.com
(650) 709-8955

linkedin.com/in/~kevin-yu
github.com/ky28059
kevin.fish

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
- Paper: https://www.remotelabor.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)
- 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

Organizations / Projects

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 in US)
- Created Next.js frontend platform / 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 directory + sign-in links, and ID barcode generation used by 1300+ students
- Built Vite + React frontend with Firebase (auth / functions / database) backend

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