Sahil Khunt

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EDUCATION

University of Illinois at Urbana-Champaign   Champaign, IL
Bachelor of Science in Computer Science, Minor in Statistics, GPA: 3.82/4.00   *Expected May 2027*

Relevant Coursework: Multivariable Calculus, Discrete Structures, Physics (Mech, E&M)
Data Structures, Linear Algebra, Computer Architecture, Prob & Stat for CS, Statistics and Probability I

EXPERIENCE

Lead Web Developer   May 2025 – Now
FiPet   *Remote*
- Leading development of FiPet's web platform using Next.js, Vercel and Tailwind CSS to deliver a fully responsive UI across desktop and mobile
- Managed and guided a team of software engineers, overseeing code reviews and providing guidance
- Collaborated closely with founders and design team to translate concepts into fully functional web features
- Oversaw technical hiring processes and directed onboarding for multiple engineering interns

Software Engineer   Sept 2024 – Present
The Illinois Space Society   *Urbana, IL*
- Collaborated with a graduate student to simulate neural network controllers for quadrotors
- Applied Lyapunov theory to ensure stability in nonlinear control systems
- Developed and implemented kalman filters for accurate position tracking in rocket GNC systems

Lead 7-8 Teacher, Web Developer   Aug 2022 – May 2024
CompSci Kids   *Schaumburg, IL*
- Developed and taught customized computer science curriculums for over 30 students
- Led and managed a team of 10 volunteers for coordinated activities
- Ran interactive Arduino sessions, guided students through virtual and hands-on projects
- Assisted in the web development team and maintained the organization's website
- Facilitated a passion for computer science by fostering creativity and problem-solving

PROJECTS

C.H.E.R | *Python, TensorFlow, React, Firebase, OpenCV*
- 1st place team at district-wide hackathon (Fremd Hacks)
- Artificial intelligence model trained on over 35,000 images of human emotion
- Uses computer vision to detect real-time emotions in subjects
- Built to detect signs of declining mental health and alert trusted adult

Task Manager App | *Swift, Xcode, Firebase*
- Developing first app featuring multi-user collaboration
- Implemented Google, Apple, and email authentication forms
- Designed and structured a thorough Firebase database to manage user tasks, authentication, and data synchronization across multiple users

Webscrapers | *React, Firebase, Tailwind CSS*
- Launched an online web development business
- Partnered with local nonprofit to redesign their website and promote community events
- Recruited and trained 2 students to assist with ongoing projects
- Actively working to build a client base

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, R, Swift, HTML/CSS, MIPS assembly
Frameworks: Node.js, React, React Native, TensorFlow, Tailwind-UI, Next.js
Developer Tools: Git, VS Code, Xcode, Firebase, Google Cloud Platform, PyCharm, IntelliJ, Vite
Libraries: pandas, NumPy, Matplotlib, OpenCV, Twilio