

# Sahil Khunt

skhun@illinois.edu | sahilkhunt08.github.io/portfolio | linkedin.com/in/sahilkhunt | (224) 239-8445

## EDUCATION

<b>University of Illinois Urbana-Champaign</b> <i>Bachelor of Science in Computer Science, Minor in Statistics</i>	GPA: 3.79/4.00 <i>Expected May 2027</i>
<b>Relevant Coursework:</b> Data Structures, Discrete Structures, Multivariable Calculus, Linear Algebra, Algs & Models of Comp, Database Systems, Computer Architecture, Prob & Stat for CS	

## EXPERIENCE

<b>Software Engineering Researcher</b> <i>Social Computing Systems Lab</i>	Sept 2025 – Present <i>Urbana, IL</i>
<ul style="list-style-type: none"><li>Working with Dr. Yun Huang to build AI-powered networking app for CSCW/CHI/UbiComp research conferences.</li><li>Developing Selenium-based pipelines to scrape and structure data on 10,000+ researchers and papers.</li><li>Integrating chatbot with PostgreSQL/Drizzle backend to support researcher profiling and collaborator matching.</li></ul>	
<b>Software Engineer</b> <i>Disruption Lab</i>	Sept 2025 – Present <i>Urbana, IL</i>
<ul style="list-style-type: none"><li>Building an Agentic AI workflow system to automate weekly curation of emerging AI research/news.</li><li>Developing pipelines with Python, Beautiful Soup, and LangChain to scrape, synthesize, and deliver insights.</li><li>Partnered with faculty client to refine requirements and deliver tools for knowledge retention and efficiency.</li></ul>	
<b>Lead Web Developer</b> <i>FiPet</i>	May 2025 – Aug 2025 <i>Remote</i>
<ul style="list-style-type: none"><li>Led development of FiPet's web platform using Next.js, Vercel, and Tailwind CSS to deliver a fully responsive UI.</li><li>Managed and guided a team of software engineers, overseeing code reviews and providing guidance.</li><li>Collaborated closely with founders and design team to translate concepts into fully functional web features.</li><li>Oversaw technical hiring processes and directed onboarding for multiple engineering interns.</li></ul>	
<b>Software Engineer</b> <i>The Illinois Space Society</i>	Sept 2024 – Present <i>Urbana, IL</i>
<ul style="list-style-type: none"><li>Developed data-processing tools to analyze rocket telemetry in real time, enabling faster performance diagnostics.</li><li>Integrated Kalman filters for position and velocity estimation, improving accuracy of flight path reconstruction.</li><li>Built software supporting the successful SpaceShot launch, breaking the UIUC record at 75,000 feet.</li><li>Collaborated with avionics and propulsion teams to ensure reliable data pipelines and mission readiness.</li></ul>	

## PROJECTS

<b>C.H.E.R</b>   <i>Python, TensorFlow, OpenCV, React, Firebase</i>	
<ul style="list-style-type: none"><li>1st place team at district-wide hackathon (Fremd Hacks) for creating an AI mental health tool.</li><li>Developed an AI model trained on 35,000+ images of human emotion, ensuring reliable classification.</li><li>Implemented real-time facial emotion detection using computer vision and deep learning.</li><li>Built to monitor emotional patterns and detect signs of declining mental health to alert a trusted adult.</li></ul>	
<b>Autonomous Drone Controller</b>   <i>Python, PyTorch, TensorFlow</i>	
<ul style="list-style-type: none"><li>Developed custom controller software to autonomously stabilize and navigate a quadrotor drone.</li><li>Designed PID altitude and LQR attitude controllers, using Lyapunov stability to verify performance.</li><li>Trained a neural network controller in simulation to optimize flight stability and control gains.</li><li>Produced graphs and visualizations from simulation data to analyze control response and performance.</li></ul>	
<b>Webscrapers</b>   <i>React, Firebase, Tailwind CSS</i>	
<ul style="list-style-type: none"><li>Founded a web development business, delivering customized websites with React and Firebase.</li><li>Redesigned a local nonprofit's website, increasing traffic and improving attendance at community events.</li><li>Developed proposals and pitched services to prospective clients, laying groundwork for continued expansion.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, JavaScript, R, Swift, HTML/CSS, Assembly (MIPS), SQL  
**Frameworks/Libraries:** React, Next.js, React Native, Node.js, TensorFlow, Tailwind UI, pandas, NumPy, OpenCV  
**Developer Tools:** Git/GitHub, Docker, VS Code, Xcode, Vite, Firebase, Google Cloud, REST APIs