

PARTH KSHIRSAGAR

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Education

The Pennsylvania State University

Aug. 2022 – May 2026

Bachelor of Science in Computer Science — Minor in Entrepreneurship and Innovation — CGPA: 3.54 University Park, PA

Experience

Detail Connect LLC

May 2025 – August 2025

Mobile App Developer Intern

- Improved UI responsiveness by 30% and enhanced customer security by integrating SMS-based OTP verification using Flutter and Node.js.
- Implemented a Reschedule feature in the mobile app using Flutter and MongoDB, enabling users to modify bookings seamlessly and reducing support requests by 35%.
- Developed and optimized RESTful APIs with Node.js and MongoDB, improving data access efficiency by 25% across mobile and web platforms.
- Improved the QA testing process, increasing testing efficiency and reducing manual QA time by 40%.

Technocrats

January 2024 – July 2024

Cofounder

- Spearheaded the development and scalable integration of AI technologies such as content generation with multi-modal models allowing up to 5 modes.
- Networked at events including TechCrunch Disrupt 2024 ensuring AI solutions are innovative, scalable, and aligned with business objectives.
- Designed solutions through Python and React to provide hosting for user products
- Implemented RESTful API and other API integrations to seamlessly connect AI models from local and external sources, enhancing the scalability and interoperability of our solutions.

Projects

Winner: VR Circuit Simulator | Unity, VR, Meta Quest, Python, Pygame, Natural Language Processing November 2024

- Achievement:** Won Best VR Hack at HackUMass at University of Massachusetts Amherst with over 500 competitors
- Description:** Innovated a VR Circuit Simulator featuring realistic breadboards, interactive components, and real-time circuit simulation, along with educational tutorials for learners at various skill levels.
- Supporting Projects:** Integrated Circuit Generator for natural language processing allowing command generation of complex circuits and 2D Circuit Simulator for rapid prototyping and testing with command input in Pygame.

Winner: The Moth Challenge | Next.js, JavaScript, React, Figma, TypeScript, Cybersecurity, Social Engineering April 2024

- Achievement:** Won first place in the cybersecurity track at Bitcamp hosted by the University of Maryland with over 550 competitors.
- Description:** Inspired by Cicada 3301 and CIA cybersecurity tests, this project involved creating gamified puzzles to introduce students to cybersecurity focusing on UI and UX.
- Development:** Utilized Figma to React for Front-end development and TypeScript for core logic and 7 puzzles. Developed a modular front-end architecture and UI using Next.js and TypeScript

Likhit | Python, Flask, JavaScript, p5.js, OCR, GPT-4

October 2023

- Achievement:** Created a handwriting improvement platform, earning recognition at HackHarvard 2023 at Harvard University, a highly competitive hackathon with over 600 participants.
- Description:** Aimed at helping with writing and bridging the gap between on paper and digital writing, offering custom phrase generation, handwriting analysis, and progress tracking.
- Development:** Built a sleek front-end with p5.js and JavaScript, enabling interactive handwriting input. Designed a Flask-based back-end, integrating OCR technology for handwriting recognition and GPT-4 for adaptive learning and phrase generation.

Technical Skills

Skills: AI/ML, Full Stack, Frontend, Backend, Databases, Web Development, App Development

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL, React, TypeScript, React Native

Developer Tools: VS Code, Vim, Unreal Engine, Android Studio, Vivado, MATLAB, Vercel, Unity, Figma

Technologies/Frameworks: Linux, Next.js, GitHub, , WordPress, Tailwinds, Huggingfaces, Langchain, Expo