

Yatharth Bajaj

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Education

Bachelor of Science – Computer Science

University of Cincinnati, Cincinnati, Ohio

University Honors Program | Dean's List Honors

Int'l Outreach Award | UC Global Scholarship

Class of 2027

GPA 3.84/4.00

Technical Skills

Python, C++, PLC Programming, JavaScript, HTML & CSS, SQL, AUTOCAD, React JS, Figma, AWS, Docker

Experience

Software Developer Co-Op

Sprite Health, Texas

May 2025 – Present

- Implemented an automated file-monitoring pipeline leveraging scheduled data queries and pattern-detection algorithms, boosting issue detection from 0% to 90% within 1 hour
- Architected a unified metadata logging & notification system using Python, Google-Cloud for all file transactions
- Created an RPA-driven process for portal file transfers across 20+ partners

Controls Engineer Co-Op

JTEKT North America Corporation, South Carolina

Jan 2024 – Dec 2024

- Designed and programmed an automated prototype, helped securing a new customer and product
- Developed AI-powered scratch detection, laser-marking, robot bin-pick systems to enhance automation
- Set-up, debugged, and optimized electrical systems and manufacturing equipment for improved efficiency

Front Desk Assistant, Peer Tutor

University of Cincinnati, Cincinnati

May 2023 – April 2025

- Managed front-desk operations, provided administrative support for a dorm of 1000+ students
- Conducted 100+ 1-1 tutoring sessions in Math, Physics, Chemistry, CS, Engineering Design

Software Developer Intern

Swiggy-Bundl Technologies Pvt Ltd, India

Jun 2023 – Aug 2023

- Optimized UI/UX for 10 + app components with Figma, JavaScript, HTML, and CSS
- Gained exposure to Cloud Computing and Docker Engine, broadening insights into modern practice

Projects

Rash Driving Detection

June 2025 – Present

- Developed a computer-vision pipeline using OpenCV & YOLOv5 to detect rash driving behaviors in traffic
- Implemented automated alerting and dashboard visualization for incident tracking and trend monitoring

Robotic Arm

Aug 2024 – Dec 2024

- Built a robotic arm with actuators, motors, and a camera for object recognition and manipulation
- Programmed the system to perform tasks like picking objects, playing games and more

Mini-Facebook

May 2024 – Aug 2024

- Built a web app with user authentication, profile management, post interaction, and real-time chat
- Ensured security by using HTTPS, Hashing, Input validation, output sanitization and more

Campus Involvement

Enable UC, University of Cincinnati

Jan 2024 - Present

- Design and build 3D-printed assistive devices, enhancing accessibility for patients with disabilities

Alpha Lambda Delta Honors Society, University of Cincinnati

Jan 2023 – Dec 2024

- Acted as Director of Service and hosted 5+ community service events, encouraging a culture of giving back

Solar Car UC, University of Cincinnati

Aug 2022 – Aug 2024

- Developed the low voltage systems: battery, tire pressure, and GPS systems of the makeshift Solar Car

Revolution UC, University of Cincinnati

Aug 2022 – May 2023

- Hosted and organized a major hackathon with 400+ participants, managed the logistical components

Available for Co-op Spring and Summer '25