

RAHUL SANGHVI

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EDUCATION

The Ohio State University

Expected Graduation: December 2027

Major in Honors Computer Science and Engineering

Minor in Finance

Relevant Coursework: Software Components, Software Development and Design, Discrete Structures, Introduction to Probability and Statistics for Engineers, Fundamentals of Engineering Honors I/II, Calculus I/II/III

Skills: Java, MATLAB, C, C++, Python, HTML, CAD, C#, Microsoft Office, Git, CSS, React.js, TypeScript, JavaScript

PERSONAL PROJECTS

AI Email Agent

Columbus, OH

Developer

May 2025– June 2025

- Built an AI email assistant using OpenAI API to generate context-aware Gmail replies.
- Integrated Google OAuth for secure inbox access and user authentication.
- Designed prompt engineering workflows to improve response relevance and tone.

AI News Update Agent

Columbus, OH

Developer

May 2025 – June 2025

- Built an AI news update SMS agent using Twilio to deliver real-time summaries via text.
- Designed a custom Model Context Protocol (MCP) to structure and feed news data into the AI model.
- Developed a React.js frontend for user input, subscription, and update management.

FEH Robotic Project

Columbus, OH

Developer

February 2025 – April 2025

- Engineered and prototyped modular robot components in OnShape and PrusaSlicer
- Developed autonomous control software in C++ using the OSU Proteus API
- Optimized mechanical design for ease of assembly and maintenance, creating detailed CAD models and print files for 3D-printed parts that improved structural reliability.
- Authored comprehensive technical documentation—covering design rationale, firmware architecture, test procedures, and iterative improvements.

EXPERIENCE

DXFactor

Tysons, VA

Software Engineering Intern

May 2025 – Present

- Assist in developing, testing, and debugging features
- Contribute to frontend and/or backend development
- Participate in code reviews and team standups
- Write technical documentation as needed

FIRST Technology Challenge Robotics

Strongsville, OH

Lead Developer and Coach

July 2018 – Present

- Led robot design and programming for a 9-member team; advanced to state-level competitions.
- Selected as a Dean's List Semifinalist for leadership and technical impact.
- Co-founded STEMstangs, a 501(c)(3) nonprofit; raised over \$30K for STEM programs.
- Created training modules in Java, CAD, and strategy; mentored junior team members.
- Authored strategic documentation and led community STEM outreach events.

Darrah Electric Company

Electronics Assembler

Cleveland, OH

May 2024 – August 2024

- Assembled and tested semiconductor components and power supply hardware.
- Streamlined inventory tracking and assisted in packaging for distribution.
- Maintained high safety and cleanliness standards on the production floor.