

Anay Soni

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Electrical and Computer Engineering (GPA: 3.68)

May 2028

Pittsburgh, PA

Relevant Coursework: Computer Systems, Foundations of Electrical and Computer Engineering, Imperative Computation, Concepts of Mathematics, Workshop Fabrication and Assembly, Computer-Aided Design (High School)

EXPERIENCE

Research Assistant

Wood Neuro Research Group (CMU)

May 2025 – Present

Pittsburgh, PA (In-person)

- Analyzing electrical brain signal data, using Python for statistical model development
- Implemented scripts for data visualization and pattern recognition to support hypothesis-driven tasks
- Integrating analysis with electrical sensors and electrodes on human subjects
- Collaborating in team discussions to adapt approaches based on feedback and project needs

Automation Developer Intern

GE Aerospace

June 2024 – August 2024

Evendale, OH (In-person)

- Created automation to manage trading restrictions using .NET and UiPath
- Improved task execution time by 80%, shifting from manual to automated workflow
- Enhanced reliability of 14 automation projects, decreasing error tickets by 30%
- Worked with finance and accounting, delivering incremental value in an Agile environment

Frontend Developer Intern

SplitShare (Startup)

December 2023 – January 2024

Durham, NC (Remote)

- Implemented subscription management features using React and Tailwind
- Built UI prototypes using Figma and reviewed with founders for rapid feedback
- Collaborated in a startup environment developing a platform for managing shared subscriptions

EXTRACURRICULARS

Power Team Engineer

Carnegie Mellon Solar Racing

August 2024 – Present

Pittsburgh, PA (In-person)

- Building solar-powered boats for national tournaments
- Designing circuitry to power the motor using removable solar panels
- Wired and validated solar-to-motor interface, ensuring reliable operation in real-world testing environments
- Collaborated with hull subteam to troubleshoot system errors, using field data to generate improvements

Senior Python Instructor

ScioVirtual Foundation

May 2021 – Present

Plainsboro, NJ (Remote)

- Taught over 160 middle school students functional programming using Python
- Leading 9 annual coding workshops, mentoring individual projects
- Completed over 250 volunteer hours

PROJECT EXPERIENCE

Surgit Alarm | *JSX, React Native, ExpoCLI*

February 2022 – Present

- Created an alarm app for deep sleepers that requires solving puzzles to snooze, using JSX and React Native
- Using Expo CLI to test and maintain the application
- Winner, INTERalliance of Cincinnati Hackathon: Best Innovation

Web CLI | *JavaScript, HTML, CSS*

June 2020 – Present

- Designed and maintained a web command line interface
- Implementing custom instruction sets simulating Linux commands using JavaScript
- Managed web traffic and deployment using Microsoft Azure Cloud