SANTHOSH NALLA

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY   Atlanta, GA
B.S. Computer Engineering   Expected May 2027
Cumulative GPA: 3.92/4.0
Relevant Coursework: Data Structures & Algorithms, Objects and Design, OOP, Design and Analysis of Algorithms
Concentration: Distributed System & Software Design and Systems & Architecture

WORK EXPERIENCE

Subsystem Design and Integration Engineer   Atlanta, GA
Georgia Tech EcoCAR EV Challenge   August 2025 – Present
- Collaborated with members of the SDI sub-team to design and model a custom false floor in **Siemens NX**, creating a lightweight, integrated platform for critical components while meeting strict packaging constraints.
- Validated the structural integrity of the false floor design by conducting **Finite Element Analysis** (FEA) with **Altair Inspire**, presenting simulation results to the team to ensure compliance with EcoCAR competition safety standards.
- Led the fabrication of the false floor component, translating Siemens NX **CAD** models into a physical product through hands-on work with various **tools** and **machines** in the university's Student Competition Center..
- Addressed vehicle Noise, Vibration, and Harshness challenges by designing and modeling custom-fit sound insulation panels using Siemens NX to improve cabin comfort and acoustics.

Web Development Intern   Remote
STEMPOWERed   August 2023 – May 2024
- Collaborated in a team of 20+ to redesign the website's frontend with **Agile sprint planning**, which improved performance metrics by 20 points and reduced page load time by 15%.
- Developed and deployed 5 new **UI components** with **JavaScript** and **CSS**, enhancing **user experience** and **engagement**, ensuring compatibility across desktop, tablet, and mobile devices
- Actively participated in **Agile sprints**, **code reviews**, and collaborative **GitHub workflows**, contributing to a 95% on-time feature delivery rate.
- Documented technical processes and contributed to cross-team knowledge sharing.

Math Instructor   Suwanee, GA
Mathnasium   August 2023 – May 2024
- Delivered individualized instruction to 100+ students from kindergarten through calculus, tailoring lessons to diverse learning styles.
- Improved long-term student performance by an average of one letter grade and achieved a 90% student retention rate.
- Strengthened communication and collaboration skills while explaining 50+ distinct math concepts in accessible ways

CERTIFICATIONS

Certified SOLIDWORKS Associate (CSWA)   May 2023

MICROSOFT OFFICE Specialist (Word**,** Powerpoint**, Excel - Microsoft 365 Apps)**   April 2024

IT SPECIALIST Certifications (Java**, Python**, Software Development**)**   May 2024

edX Verified Certificate for Introduction to **Computing using Python**   Nov 2023

TECHNICAL SKILLS

Programming Languages:	Java, Python, C++, SQL, JavaScript, HTML, CSS
Web Development:	JavaScript, CSS, React, Node.js, Webflow, UI/UX Optimization, Frontend Development
Database & Data:	SQL queries, Data Integrity, Performance Tuning, Database Administration, MySQL
Development Tools:	Git/GitHub, Visual Studio Code, Jupyter, Django
Project Management:	Atlassian, Agile/Scrum methodologies, Sprint planning, Code reviews, JIRA
Engineering:	CSWA, System Design & Integration, Mechanical Knowledge, Automotive Servicing
Other:	Computer Networking, System Design & Integration, Technical Support, Issue Resolution, System Diagnostics, API Integration