

Hemant Pacha

Richardson, TX

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SUMMARY

Computer Science student with strong development experience in C++ and Python on Linux environments. Designed and implemented an RFID barcode scanner and automated inventory tracking system for NASA HUNCH, processing data for over 100 items and reducing retrieval time by 15%. Developed application software following object-oriented design principles and executed system tests to validate performance. Proven communicator and collaborative team player with a self-starter mindset and experience presenting technical solutions to stakeholders.

EDUCATION

University of Texas at Dallas

Bachelor of Science, Computer Science, Minor in Business

May 2028

EXPERIENCE

NASA HUNCH Program

Student Engineer

Aug 2023 - May 2024

Carrollton, TX

- Designed an RFID barcode scanner utilizing C++ and object-oriented design principles
- Created an automated inventory tracking program using Python, Pandas, and GitHub for version control on Linux systems to process data for 100+ inventory items
- Engineered a storage locker system with integrated scanning technology using C++ in a Linux environment, improving organization and decreasing retrieval time by more than 15%
- Presented the final project to NASA HUNCH representatives alongside participating schools

The Home Depot

Pro Sales Associate

May 2025 - Aug 2025

Irving, TX

- Performed sales for clients using company point-of-sale and order management software, accurately handling over \$2000 daily in transactions across cash, credit, and company accounts
- Partnered with contractors to recommend cost-effective product solutions for client needs
- Assisted clients with Home Depot Pro accounts and processed payments on company cards

North Texas Food Bank

Team Member

Jun 2024 - Sep 2024

Plano, TX

- Assisted in packaging and distributing food supplies to support service for hundreds of families.
- Collaborated with volunteers to distribute over 400,000 meals daily, supporting the food bank's goal of reaching hundreds of families
- Adapted quickly to changing tasks in a fast-paced environment to ensure efficient operations

PROJECTS

Portfolio Website

Jul 2025 - Present

- Developing a multi-page responsive website to showcase future projects and resume
- Implemented HTML formatting, CSS styling, and interactive features using JavaScript
- Utilized Github for version control and deployment

Fitness Logger

Aug 2025 - Present

- Web app to log workouts, visualize progress, and provide personalized workout suggestions using AI
- Building interactive UI with Streamlit for data entry, tracking, and charting
- Applying Python for data handling and libraries to enhance user recommendations

TECHNICAL SKILLS

- **Languages:** Java, Python, C++, HTML, CSS
- **Frameworks:** Streamlit
- **Developer Tools:** GitHub, VS Code, Microsoft Visual Studio
- **Libraries:** Pandas
- **Systems & Design:** Linux Systems, Object-oriented Design