

Paramveer Singh Bhele

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EDUCATION

University of South Florida

August 2022 - May 2026

Bachelor of Science in Computer Science

Tampa, FL

Scholarships: USF Green and Gold Directors Award; Annette L. Raymund Endowed Scholarship Fund; Computer Science Scholarship Fund; Engineering Scholarship Fund

Courses: Data Structures & Algorithms, Automata Theory, Software Engineering, Advanced OOP in C++, Secure Coding

EXPERIENCE

Student Assistant - Digital Initiatives

August 2024 – Present

University of South Florida Libraries

Tampa, FL

- Built **web-scraping tools** to cross-check Excel with Digital Commons website, cutting manual review time by **70%**
- Improved **cataloging accuracy** by standardizing metadata, resulting in efficient retrieval for **1,000+ items**

Undergraduate Research Assistant

February 2025 – July 2025

RARE Lab, University of South Florida — Supervisor : Dr. Zhao Han

Tampa, FL

- Ran **participant studies** and analyzed behavior data on Pepper robot, contributing to paper accepted at **HRI 2026**
- Built **Android app** for recipe recommender robot (Misty), integrating **Gemini AI** and **Google Cloud SDK**

Peer Mentor For Learning Teams

April 2023 – August 2024

University of South Florida College of Engineering — Supervisor : Dr. Mary E. Goodwin

Tampa, FL

- Strengthened Calculus mastery for **25+ engineering students** via tailored classes and problem-solving drills
- Secured **100% engagement in EGN 4930** by orchestrating interactive peer-learning sessions weekly

App Developer Intern

May 2022 – July 2022

Coefficient Software Systems Pvt Ltd.

Mumbai, India

- Profiled **500+** US, UK, and Australian universities, producing benchmarking dashboards for product positioning
- Improved UI/UX for **Learn English** app, maintaining **100,000+ downloads** and a **4.4/5** on the [Google Play Store](#)

PROJECTS

CarbonCTRL (Hackathon Winner) | Full Stack, Gemini API, MERN Stack | carbonctrl.us

- Built an end-to-end platform that quantifies emissions and surfaces **AI-driven offset plans** in real time
- Integrated React front-end with **Gemini AI**, for dynamic dashboards, authentication, and personalized insights
- Ranked 1st of 70+ projects** at HackaBull 2025 for **Best Use of Gemini API Track**

Adversarial Spam Detection | BERT, Qwen3-4B, Transformers, LoRA, PyTorch, Classifiers

- Selected for the **AI4ALL Ignite program**, mentored by **Paul Yang**, to explore adversarial spam detection
- Built training loop alternating **BERT classifier fine-tuning** with **Qwen3-4B** adversarial spam generation
- Improved detection from **91.7% → 95.7%** across 3 adversarial iterations while maintaining **96.5% accuracy**

Stock Analysis Tool | C#, WinForms, .NET, OOP

- Built dynamic stock analysis UI to detect price waves and draw **live Fibonacci levels with real-time confirmations**
- Enabled wave simulation via **drag, animation, and control buttons**, with instant validation and feedback
- Validated 1,000+ candles using **peak/valley detection, Fibonacci math, and visual confirmation markers**

LEADERSHIP

Head of Logistics | TEDx at USF

Jun 2024 – Jan 2025

- Planned TEDx event logistics, aligning **10+ volunteers** with a **100 seats** venue and finalizing operations and run sheets

Vice President | Students of India Association at USF

Jan 2024 – May 2024

- Raised **\$15,000** through fundraising initiatives, leading a **26-member team** to expand cultural programs

Database Director | Society of Hispanic Professional Engineers at USF

Jan 2024 – May 2024

- Streamlined an archive of **1,500+ files**, **reducing retrieval time by 40%** through categorization and officer training

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript/TypeScript, SQL

Frameworks & Libraries: React.js, Next.js, Node.js, Express, Flask, .NET, MongoDB, REST APIs, OpenAI API

Developer Tools: AWS, Docker, Git/GitHub, VS Code, Jupyter, Jira, Android Studio, Xcode

Machine Learning: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, OpenCV, Matplotlib