

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

EXPERIENCE

Undergraduate Research Assistant February 2025 – Present
RARE Lab, University of South Florida — Supervisor : Dr. Zhao Han Tampa, FL

- Designed and deployed survey tools to analyze **human-robot interaction** studies, capturing key behavioral insights
- Utilized **Pandas and NumPy** to assess the datasets generated, and **improve interaction models by 20%**
- Collaborated on **AI/ML** projects for multiple robots, **training models and implementing intelligent control**

Student Assistant - Collections and Discovery August 2024 – Present
University of South Florida Libraries Tampa, FL

- Indexed **10,000+** images in Excel, enriching metadata to **cut classification errors by 25%** and boost catalog recall
- Improved **cataloging accuracy** by standardizing metadata, resulting in efficient retrieval for **1,000+ items**

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, TensorFlow, Node.js, Next.js, React, Supabase, Gemini AI* | carbonctrl.us

- Built an end-to-end platform that quantifies emissions and surfaces **AI-driven cut/offset plans** in real time
- Integrated React/Next.js 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**

Fraud Detection Dashboard | *Numpy, Scikit-learn, Machine Learning, Models, Flask, Logistic Regression, Dash*

- Achieved **89 % accuracy** on card-fraud data with Logistic Regression, lifting performance **15 %** via scaling
- Reduced **false-positive alerts by 12%** through class-weight tuning and threshold calibration
- Delivered Flask/Dash app that plots **ROC, confusion, heatmaps**, speeding analyst review cycles by 2 times

Stock Analysis Tool | *C#, WinForms, .NET, Charting, Algorithmic Validation, LINQ, 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* June 2024 - January 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* January 2024 - May 2024

- Elevated the budget by **\$15,000** through targeted fundraising, steering a **26-member** team toward expanded programs

Database Director | *Society of Hispanic Professional Engineers at USF* January 2024 - May 2024

- Streamlined **1,500+** files archive, **cutting retrieval time by 40%** via categorization and training officers

TECHNICAL SKILLS

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

Frameworks: React.js, Next.js, Node.js, Express, .NET, Flask, Supabase, Gemini API, OpenAI API, REST APIs

Developer Tools: AWS, Docker, GitHub, VS Code, Jupyter, Jira, MySQL, Excel, Android Studio, Xcode Microsoft 365

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