

Paramveer Singh Bhele

813-697-7068 | bheleparamveer@gmail.com | paramveerbhele.com | [linkedin/paramveer-singh-bhele](https://linkedin.com/in/paramveer-singh-bhele) | [github/Param-10](https://github.com/Param-10)

EDUCATION

University of South Florida

Tampa, FL

Bachelor of Science in Computer Science

Aug. 2022 – May 2026

Scholarships: USF Green and Gold Directors Award, Annette L. Raymund Endowed Scholarship Fund

Courses: Data Structures, Automata Theory, Linear Systems, Analysis of Algorithms, Software System Development

EXPERIENCE

Undergraduate Research Assistant

Feb. 2025 – Present

RARE Lab, University of South Florida

Tampa, FL

- Designed and deployed survey tools to analyze **human-robot interaction(HRI)**, capturing key behavioral insights
- Utilized **Python, Pandas, and NumPy** to analyze HRI datasets, to **improve interaction models by 20%**
- Enhanced robot safety and advanced research outcomes by contributing to **protective solutions for the Pepper robot**

Student Assistant - Collections and Discovery

Aug. 2024 – Present

University of South Florida Libraries

Tampa, FL

- Optimized library collection organization and accessibility for **10,000+ items** by ensuring precise, efficient data entry
- Improved **cataloging accuracy** by standardizing metadata through Excel, resulting in efficient retrieval for 1,000+ items

Peer Mentor for Learning Teams

April 2023 – Aug 2024

University of South Florida College of Engineering

Tampa, FL

- Enhanced Calculus performance and problem-solving skills for **25+ engineering students** through targeted mentoring
- Achieved **100% student participation** in EGN 4930 by facilitating interactive weekly Learning Team sessions

Summer Software Intern

May 2022 – July 2022

Coefficient Software Systems Pvt Ltd.

Mumbai, India

- Generated key insights by analyzing data on **500+ universities** across the USA, UK, and Australia for benchmarking
- Implemented UI/UX improvements to the "Learn English" app, with **100,000+ downloads** and a **4.4/5** on Play Store

PROJECTS

Face Detection Web App | Flask, OpenCV, DeepFace, Machine Learning, Models, Python, JavaScript, Render

- Developed a web app enabling real-time and uploaded image face detection using OpenCV, deployed on Render
- Improved local processing for image analysis via DeepFace and PyTorch, enabling **motion, age, and gender detection**
- Built a Flask interface with JS, optimizing **webcam and upload integration** for memory-constrained deployment

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

- Achieved **89% accuracy** on training and test datasets by implementing a Logistic Regression model
- Improved model performance by 15%** through scaling, feature selection, and handling missing values
- Delivered actionable insights by creating visualizations like **ROC curves, confusion matrices, and heatmaps**

Bulls-GO Web Application | HTML5, CSS, JavaScript, jQuery, Mapbox API, PassioGo API, Github

- Enhanced BullRunner website by improving bus tracking and routes by creating a **dynamic web application**
- Demonstrated using API and geospatial skills by implementing **real-time bus tracking** with Passiogo endpoints
- Bolstered project transparency and collaboration by streamlining code maintenance through GitHub hosting and updates

LEADERSHIP

Head of Logistics | TEDx at USF

June 2024 - Jan. 2025

- Led TEDx logistics, managing **10+ volunteers and venue arrangements for 100**, ensuring event success

Vice President | Students of India Association at USF

Jan. 2024 - May 2024

- Secured a **\$9,000 budget increase** through financial strategy and fundraising, while leading a 26-member team

Database Director | Society of Hispanic Professional Engineers at USF

Jan. 2024 - May 2024

- Optimized data management for 1,500+ files, **reducing retrieval time by 40%** via categorization and training.

TECHNICAL SKILLS

Languages: Python, C++, C, C#, HTML/CSS, JavaScript, SQL

Frameworks: React, .NET, Tailwind

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

Libraries: OpenCV, Numpy, Pandas, Tensorflow, PyTorch, Flask, Scikit-learn, Matplotlib