

# Paramveer Singh Bhele

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## EDUCATION

<b>University of South Florida</b> <i>Bachelor of Science in Computer Science</i>	August 2022 - May 2026 Tampa, FL
<b>Scholarships:</b> USF Green and Gold Directors Award; Annette L. Raymund Endowed Scholarship Fund; Computer Science Scholarship Fund; Engineering Scholarship Fund	
<b>Courses:</b> Data Structures & Algorithms, Automata Theory, Software Engineering, Advanced OOP in C++, Secure Coding	

## EXPERIENCE

<b>Student Assistant - Digital Initiatives</b>	August 2024 – Present
<i>University of South Florida Libraries</i>	
• Built <b>web-scraping tools</b> to cross-check Excel with Digital Commons website, cutting manual review time by <b>70%</b>	
• Improved <b>cataloging accuracy</b> by standardizing metadata, resulting in efficient retrieval for <b>1,000+ items</b>	
<b>Undergraduate Research Assistant</b>	February 2025 – July 2025
<i>RARE Lab, University of South Florida — Supervisor : Dr. Zhao Han</i>	
• Ran <b>participant studies</b> and analyzed behavior data on Pepper robot, contributing to paper accepted at <b>HRI 2026</b>	
• Built <b>Android app</b> for recipe recommender robot (Misty), integrating <b>Gemini AI</b> and <b>Google Cloud SDK</b>	
<b>Peer Mentor For Learning Teams</b>	April 2023 – August 2024
<i>University of South Florida College of Engineering — Supervisor : Dr. Mary E. Goodwin</i>	
• Strengthened Calculus mastery for <b>25+ engineering students</b> via tailored classes and problem-solving drills	
• Secured <b>100% engagement</b> in <b>EGN 4930</b> by orchestrating interactive peer-learning sessions weekly	
<b>App Developer Intern</b>	May 2022 – July 2022
<i>Coefficient Software Systems Pvt Ltd.</i>	
• Profiled <b>500+</b> US, UK, and Australian universities, producing benchmarking dashboards for product positioning	
• Improved UI/UX for <b>Learn English</b> app, maintaining <b>100,000+ downloads</b> and a <b>4.4/5</b> on the <a href="#">Google Play Store</a>	

## PROJECTS

<b>CarbonCTRL (Hackathon Winner)</b>   <i>Full Stack, Gemini API, MERN Stack</i>   carbonctrl.us	
• Built an end-to-end platform that quantifies emissions and surfaces <b>AI-driven offset plans</b> in real time	
• Integrated React front-end with <b>Gemini AI</b> , for dynamic dashboards, authentication, and personalized insights	
• Ranked <b>1<sup>st</sup></b> of <b>70+</b> projects at HackaBull 2025 for <b>Best Use of Gemini API Track</b>	
<b>Adversarial Spam Detection</b>   <i>BERT, Qwen3-4B, Transformers, LoRA, PyTorch, Classifiers</i>	
• Selected for the <b>AI4ALL Ignite program</b> , mentored by <b>Paul Yang</b> , to explore adversarial spam detection	
• Built training loop alternating <b>BERT classifier fine-tuning</b> with <b>Qwen3-4B</b> adversarial spam generation	
• Improved detection from <b>91.7% → 95.7%</b> across 3 adversarial iterations while maintaining <b>96.5% accuracy</b>	
<b>Stock Analysis Tool</b>   <i>C#, WinForms, .NET, OOP</i>	
• Built dynamic stock analysis UI to detect price waves and draw <b>live Fibonacci levels with real-time confirmations</b>	
• Enabled wave simulation via <b>drag, animation, and control buttons</b> , with instant validation and feedback	
• Validated 1,000+ candles using <b>peak/valley detection, Fibonacci math, and visual confirmation markers</b>	

## LEADERSHIP

<b>Head of Logistics</b>   <i>TEDx at USF</i>	Jun 2024 – Jan 2025
• Planned TEDx event logistics, aligning <b>10+ volunteers</b> with a <b>100 seats</b> venue and finalizing operations and run sheets	
<b>Vice President</b>   <i>Students of India Association at USF</i>	
• Raised <b>\$15,000</b> through fundraising initiatives, leading a <b>26-member team</b> to expand cultural programs	Jan 2024 – May 2024
<b>Database Director</b>   <i>Society of Hispanic Professional Engineers at USF</i>	Jan 2024 – May 2024
• Streamlined an archive of <b>1,500+ files</b> , <b>reducing retrieval time by 40%</b> through categorization and officer training	

## TECHNICAL SKILLS

<b>Languages:</b> Python, C++, Java, JavaScript/TypeScript, SQL
<b>Frameworks &amp; Libraries:</b> React.js, Next.js, Node.js, Express, Flask, .NET, MongoDB, REST APIs, OpenAI API
<b>Developer Tools:</b> AWS, Docker, Git/GitHub, VS Code, Jupyter, Jira, Android Studio, Xcode
<b>Machine Learning:</b> NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, OpenCV, Matplotlib