

# Shriraj Mandulapalli

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## Education

**Florida Polytechnic University**, GPA: 3.63/4.00

*Bachelor of Science in Computer Science, Concentration in Software Engineering*

**Lakeland, FL**  
**Graduating May 2026**

**Relevant Coursework:** Machine Learning, Data Structures, Algorithm Design & Analysis, UI/UX, OOP, System A&D, Database 1, Computer Networks & Communication, Computational Linear Algebra, Discrete Math.

## Technical Skills

**Programming Languages:** Python, JavaScript, C++, C, SQL, HTML, CSS, PHP, Java, Ruby

**Technologies / Frameworks:** Node.js, Scikit-Learn, Pandas, RestAPI, Flask, Azure, AWS, Oracle, Git, Linux/Unix, PySpark, PostgreSQL, MongoDB, SandraDB, PyTorch, AWS Bedrock/Sagemaker, React, Django, Next.js, .NET Core, RoR

**Developer Tools:** Visual Studio Code, PyCharm, MySQL, GitHub, Git, PowerBI, Hue, Jira, Asana, Agile,

## Projects / Experience

**Machine Learning Research Assistant** | *Automated Software Development using LLMs*

Nov 2024 - Present

- Currently collaborating with a Senior Google Software Engineer, a Computer Science Professor, and one other peer to research the automation of software development and the software development life cycle (SDLC) using Large Language Models (LLMs) and incorporating agentic Artificial Intelligence.
- Designing and evaluating different artificial intelligence agents to test the accuracy and reliability of automated software development processes.
- Contributing to ongoing research in the machine learning field by exploring innovative and creative methods to enhance Software Development Life Cycle automation through Large Language Model integration.

**VCT Hackathon: Esports LLM Digital Assistant** | *Python, AWS Bedrock, S3, PySpark*

Sept 2024 - Present

- Developed an LLM-powered digital assistant using Amazon Bedrock, S3, and Sagemaker, which facilitates effective team creation and answers queries related to VALORANT Esports players based on 101.2 GB of data.
- Implemented AWS services such as Amazon Bedrock Agents and Knowledge Bases to analyze supplied esports data, enhancing the model's decision-making process to allow accurate responses to any related query.
- Optimized model performance by using small, cost-effective LLMs, ensuring high scalability and staying under budget while collaborating with group members to meet project deadlines.

**Personalized Fishing & Staking Discord Bot** | *JavaScript, Node.js, MongoDB*

Jan 2024 - Present

- Developed a fishing and stacking based Discord bot using JavaScript, Discord.js, and Node.js, ensuring 99% uptime for 20+ users.
- Created 4+ gambling functionalities like roulette, blackjack, coinflip, and fish battles; all while ensuring efficient integration within the Discord software for consistent and smooth user experience.
- Integrated MongoDB as a backend solution to store over 20 individual user's data, transactions, currency, active cooldowns, and statistics while allowing swift and efficient accessibility to the stored data through commands.

**NBA Season Predictor** | *Python, Scikit-Learn, Pandas*

Aug 2024 - Present

- Developed an NBA Season Predictor using Python, Scikit-Learn, and Pandas to make predictions for each team's overall record for the upcoming season based on datasets from over 10 previous seasons.
- Utilized Random Forest classifiers and parameter tuning to predict each team's record for the upcoming season.
- Implemented data preprocessing techniques and data manipulation using Pandas to optimize model performance.
- Analyzed team-wide statistics (assists, steals, blocks, turnovers, etc.) to identify important trends in team performance or indicators that could significantly alter model results.

## Leadership / Involvement

**Society of Hispanic Professional Engineers (SHPE)** | *Member*

Oct 2024 - Present

**Esports Social Media Manager** | *Florida Polytechnic University*

Oct 2023 - Feb 2024

- Created and managed multimedia content such as graphics, videos, and livestreams to showcase esports events, broadcasts, tournaments, match results, and achievements, while managing content being posted on Twitter and Instagram
- Engaged with community members while also reaching out to other college esports programs for collaborations.

**Collegiate OVERWATCH 2 / VALORANT Varsity Player** | *Florida Polytechnic University*

Sept 2022 - Present

- Demonstrated leadership and strategic planning by coaching alternative teams while also participating in Varsity, further developing my skill and teamwork.
- Committed 10+ hours per week to practice team coordination and develop my skills while actively applying strategies for continuous improvement in competitive matches.
- Guided teams to success as a player and coach, achieving multiple high-level tournament results.
- Finished 2<sup>nd</sup> in NECC Challengers Atlantic FA 2023, 1<sup>st</sup> in Challengers LCQ, and 3<sup>rd</sup>/199 in the 2023-24 NECC Nationals