

Marvin Chaudhary

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TECHNICAL SKILLS

Algorithms & Data Structures: Strong understanding of core algorithms, search and sort, dynamic programming, graph theory, and time complexity

Software Development: Object-Oriented Programming, Full-Stack Development, Multi-threading, Problem Solving

Tools & Frameworks: Git, Postman, IntelliJ IDEA, PyCharm, Kubernetes, Linux

Financial Interests: Basic familiarity with financial markets and trading concepts

Skills: Analytical Thinking, Collaborative Development, Cross-functional Teamwork

Languages: Java, Python, C++

EDUCATION

Southeast Missouri State University (3.9 GPA) **Expected Graduation: Spring 2026**

Bachelor of Science Computer Science Track, Minor in Business Administration

Relevant Coursework: Algorithms and Data Structures, Discrete Structures, Java and Python OOP, Probability and Statistics

Concentrations: Financial Technology, Machine Learning, Full-Stack Development, Competitive Programming, Data Analytics, Software Engineering

WORK EXPERIENCE

Resident Assistant

Southeast Missouri State University | August 2023 – Present

- Provide first-level technical and non-technical support for residence hall operations, troubleshooting AV and IT issues.
- Collaborate on initiatives to enhance student engagement and hall maintenance, while working in a team-based environment.

Motel Manager

Summer 2022

- Successfully managed day-to-day operations of a motel, leading a team and driving \$200,000 in revenue over three months.
- Applied problem-solving and project management skills to ensure operational efficiency.

PROJECTS

Game Theory Project (Prisoner's Dilemma) | Java, Object Oriented Programming

May 2024- June 2024

- This project is based on the series of **probabilistic and statistical experiments** done by University of Michigan professor Robert Axelrod during early 1980s, which are still considered to be **pioneers in the field of game theory**.
- A comprehensive simulation of Axelrod's Iterated Prisoner's Dilemma tournament in Java, implementing **14 different strategies** including TIT FOR TAT, ALL DEFECT, and NYDEGGER.
- Optimised the simulation using multi-threading to handle large-scale tournaments with more than 1,000 simultaneous matches, reducing processing time by **70%**.

OTHER EXPERIENCE

Community Involvement: Competitive Programming Club, International collegiate-DECA, Internet of Things Research Lab

Achievements: Generated **23% ROI** on a personal investment last year, Chess ELO 1400 (OTB), Black Belt in Karate (National Gold Medalist), State-level Equestrian.