MARVIN CHAUDHARY

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EDUCATION

Southeast Missouri State University   **Aug 2022 – May 2026**

Bachelor of Computer Science, Minor in Business Administration   *Cape Girardeau, MO*

Relevant Coursework: Algorithms Design & Analysis, Data Structures, Discrete Structures, Object-Oriented Programming, Object- Oriented Design, Data Analytics, Software Engineering, Full-Stack Development.

EXPERIENCE

Remster (IIT Madras based startup) 🔗   **Oct 2025 – Nov 2025**

Frontend Engineer (Contract)   *Framer, Framer Motion*   *Remote*

- Engineered fully responsive web layouts of Remster.in using Framer, implementing precise breakpoint logic to ensure seamless rendering across mobile, tablet, and desktop viewports.
- Diagnosed and resolved critical UI rendering issues related to absolute positioning and content overflow, optimizing the application for cross-device compatibility.

Southeast Missouri State University   **Jan 2025 – Present**

Undergraduate Researcher   *Python, NumPy, Pandas, Bloomberg Terminal*   *Cape Girardeau, MO*

- Processed and visualized large-scale financial datasets using Pandas, NumPy, and Matplotlib to support graduate-level research on AI-driven asset allocation strategies.

PROJECTS

Amor+Chai (E-Commerce Platform) 🔗   *Next.js, React, Supabase, Stripe, Tailwind*

- Architected a revenue-generating platform using Next.js Serverless API routes and Stripe, managing production data via a Supabase (PostgreSQL) schema with Row-Level Security and Authentication.
- Engineered high-performance 3D product rendering using Three.js and implemented the Provider Pattern (React Context) for scalable global state management of shopping carts and sessions.

TurboMC: Sub-Second Monte Carlo Options Pricer 🔗   *C++, Multi-threading, OpenMP*

- Implemented Monte Carlo simulation for European options pricing with 10M+ path executions and <0.05% pricing error.
- Engineered C++ multi-threading solution achieving 6.9x speedup (44.25s → 6.45s) for call options and 6.8x (42.45s → 6.28s) for put options.
- Optimized with OpenMP parallel processing, reducing 10M simulation runtime by 90% (6.3s → 0.7s) across 8 CPU cores.

Ravi's Study Program: Leetcode Bot 🔗   *Python, Discord.py, Google API*

- Engineered a Discord.py bot with OAuth2 and RESTful API integration to automate LeetCode data tracking, creating a data pipeline that eliminated manual spreadsheet entry for students.

Technical Indicator LFT System 🔗   *Python, TA-Lib, Pandas*

- Developed an algorithmic trading system using Python and Pandas to back-test RSI/Bollinger strategies, achieving 342.42% ROI on TSLA data (vs. 196% benchmark) via optimized risk parameters.

COMMUNITY INVOLVEMENT

HackLabs Club 🔗   **Sept 2025**

Founder & President   *Cape Girardeau, MO*

- Established and scaled a technical community to 50+ members, driving innovation through weekly project-based workshops and hackathon training.
- Led a 9-member delegation to secure three podium finishes at Vibeathon, winning $2,500, directing the rapid delivery of six AI-integrated healthcare solutions in a 22-hour sprint.

Atlassian x ForgeHACK Hackathon 🔗   **Feb 2025**

Finalist   *Sydney, Australia*

- Architected an AI-powered onboarding assistant on Atlassian Forge using JavaScript and ROVO Agents, implementing Jira tracking and NLP-based Confluence summarization.

Ravi's Study Program (RSP) 🔗   **Nov 2024 – Present**

Community Member   *Adelaide, Australia*

- Delivered algorithms and system design mentorship to 300+ peers through semi-weekly mock interviews, enhancing technical readiness for top-tier software engineering roles.

TECHNICAL SKILLS (LANGUAGES, FRAMEWORKS & DEV TOOLS)

C++, Python, Java, JavaScript (ES6+), SQL, MERN Stack (MongoDB, Express.js, React.js, Node.js), Next.js, Tailwind, OpenMP, Pandas, NumPy, Scikit-Learn, TensorFlow, Seaborn, Flutter, HTML/CSS, Framer, Framer Motion, Git, VS Code, CLion, IntelliJ IDEA, Jupyter notebook, Supabase