

SARTHAK MADAN

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Analytical problem-solver and emerging business strategist operating at the intersection of data, technology, and market insights, with a track record of translating complex information into actionable strategies. Skilled in uncovering patterns, streamlining processes, and enabling data-driven decision-making across technical and business domains. Recognized for aligning cross-functional teams, simplifying workflows, and shaping solutions that improve efficiency and customer impact. Adept at blending quantitative rigor with business context to craft meaningful recommendations, explore market opportunities, and support growth initiatives. Currently applying a foundation in systems analysis and software development toward roles in business and data analysis, with an eagerness to contribute to innovative teams and forward-looking organizations.

STRATEGIC & TECHNICAL EXPERTISE

Business & Strategy: Startup leadership, fundraising, market analysis, growth hacking, business modeling, and P&L ownership.
Finance & Product Innovation: Trading systems, financial forecasting, revenue optimization, credit-building models, and consumer loyalty mechanics.
Technology Mastery: Proficient in Python, C++, C#, Java, Swift, Dart, R, JavaScript, HTML/CSS, and MIPS Assembly; experienced with ReactJS, NodeJS, TensorFlow, Keras, and microservice architectures.
Ecosystem & Tools: Skilled with API ecosystems, cloud automation, NLP frameworks (NLTK, Spacy, Gensim), advanced database design, and UI/UX frameworks like Bootstrap and Tkinter.

EXPERIENCE

POLYPLEX, Decatur, Alabama Jun 2024 - Aug 2025
IT Systems Analyst

- Built and deployed a full-stack visitor management system that modernized facility operations and compliance.
- Refactored ERP modules into scalable, modular components that strengthened system resilience and adaptability.
- Automated infrastructure workflows that eliminated manual overhead and accelerated deployment cycles.
- Aligned technology initiatives with executive priorities, reinforcing IT as a driver of business outcomes.
- Collaborated with cross-functional teams to deliver secure, high-impact solutions under agile frameworks.

PERSISTENT SYSTEMS INC., Seattle, Washington Mar 2024 - May 2024
Software Engineer Intern

- Streamlined laboratory imaging systems by implementing automation scripts that reduced manual interventions.
- Re-architected dependencies into microservices that enhanced modularity and deployment efficiency.
- Optimized imaging software configurations with C++ to accelerate data throughput in high-volume environments.
- Conducted bottleneck analysis that uncovered inefficiencies and guided technology selection.

HELIX TECH IT, Hayward, California Jan 2024 - Mar 2024
Software Developer

- Engineered a ticketing system that automated workflows and elevated resolution speed across business units.
- Built distributed microservices with Spring Boot that optimized resource utilization and ensured availability.
- Refined database schemas to reduce latency, improve transactional integrity, and accelerate queries.
- Applied multithreading techniques that boosted concurrency handling and resource allocation.
- Enforced code quality through rigorous peer reviews that improved maintainability and scalability.

NILE AUTOMOTIVE, Atlanta, Georgia, US June 2022 - Aug 2022
Software Engineer Intern

- Implemented ERP systems that optimized production tracking, supply chain visibility, and capacity planning.
- Integrated a Python-based algorithm that automated resource allocation and minimized machine downtime.
- Refactored legacy codebases with OOP principles that reduced technical debt and simplified updates.
- Enhanced cross-department workflows by bridging IT systems with business operations.

ESCORTS KUBOTA LTD. June 2021 - Aug 2021
Software Engineer Intern

- Developed an NLP-powered chatbot that delivered real-time customer support and elevated engagement.
- Enhanced query handling with intent classification and pattern matching that improved responsiveness.
- Conducted functional UI testing that boosted coverage, detected regressions early, and ensured performance.
- Demonstrated AI-driven customer experience enhancements that advanced organizational digital maturity.

EDUCATION

CALIFORNIA STATE UNIVERSITY, EAST BAY Hayward, CA
Bachelor of Science in Computer Science Jan 2020 - Dec 2023

- Coursework:** Data Structures and Algorithms, Object Oriented Programming, Programming Language Concepts, Python, C++, Analysis of Algorithms, Artificial Intelligence, Automata and Computation, Software Engineering, Mobile Programming.