

Karthik Bobbili

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EDUCATION

The University of Texas at Austin GPA: 3.94/4.0 | Bachelor of Science | *Computer Science* May 2028
SAT: 1530/1600

EXPERIENCE

Capital One - Incoming Software Engineering Intern; McLean, VA Jun 2026 – Aug 2026

CarMax - Software Engineering Intern; Dallas, TX Jun 2025 – Aug 2025

Largest used vehicle retailer in the United States with a valuation of 10.45 billion dollars and 750,000 vehicles sold last year.

- Built and maintained a web application with Azure Pipelines while following object-oriented programming principles, allowing managers to update databases in real time, reducing daily planning delays by 6 hours and cutting route errors by 20%.
- Utilized .NET libraries to develop RESTful API endpoints in backend, enabling seamless SQL queries and data retrieval.
- Created an intuitive React frontend, enabling efficient navigation through multi-page workflows with buttons and dropdowns.

PropDoc.Ai – Software Engineering Intern; Remote Mar 2025 – April 2025

Startup leveraging AI by developing automation-driven solutions to streamline real estate transactions via PDF processing.

- Developed Python scripts to automate PDF field mapping, reducing manual data entry time by 80% through various HTTPS JSON formatted requests for data population, leveraging algorithmic parsing for accurate field detection and integration.
- Integrated RESTful APIs to process real estate data, feeding API requests into an AI model for automated field prediction.
- Utilized PyTorch and Pandas to build an algorithm to identify writable checkboxes and underlines in PDFs with 92% accuracy.

Advanta Seeds - Software Development Intern; Bryan, TX Jun 2023 – Aug 2023

World's top seed company leading development of germplasms tailored to meet the need for climate-smart, nutritional crops.

- Designed automated filing systems to categorize and organize seed data for over 200 germplasms, coherently managing data.
- Built a mock memory allocator in C to evaluate data storage techniques, improving database memory efficiency by almost 3%.

LEADERSHIP EXPERIENCE AND ACTIVITIES

Quantitative Market Intelligence (QMI) – Senior Intelligence Analyst Sep 2024 – Present

Selected as one of 9 analysts from 130+ applicant pool to aid in execution of algorithmic trading strategies to ~\$60K portfolio.

- Completed accelerated 5-hour/week curriculum over data science, statistics, fundamental finance, and investment strategies.
- Developed and backtested statistical arbitrage algorithms using multiple Python libraries and leveraging historical market data.
- Applied financial modeling, statistical analysis, and machine learning in project-based lectures on daily investment problems.

University Securities Investment Team – Distinguished Member Sep 2024 – Present

Organization of 300+ students focused on managing a portfolio of \$50k+ through fundamental and technical analysis of stocks.

- Gained practical experience in securities, quantitative finance, and private equity via educational and philanthropic projects.
- Conducted market research to deliver real-time financial insights and forecasts to support data-driven investment strategies.

Texas Blockchain – Labs Developer Sep 2024 – Dec 2024

Organization focused on developing Web3 contracts for hackathons and an investment fund totaling 40 Ethereum (~130K).

- Learned and applied core Web3 concepts and smart contract development using Solidity to build decentralized applications.
- Developed and tested smart contracts with Foundry, focusing on blockchain solutions for event management and operations.

HONORS

- University Honors Fall 2025 – Present
- National Merit Finalist Spring 2024
- USA Swimming NCSA Jr. National Qualifier Spring 2024

ADDITIONAL INFORMATION

Computer Skills: Proficient in Python, Java, C; Intermediate in C#, JavaScript, .NET, SQL, JavaScript, React, PyTorch, Pandas

Interests & Hobbies: Ultimate Frisbee, Weightlifting, Swimming, American Football, Rock Climbing, Travelling, Oil Painting

Work Eligibility: Eligible to work in the U.S. with no restrictions.