Manasa Vinod Kumar

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Education

University of Maryland, College Park Graduation: December 2026
BS in Computer Science, Minor in Economics

- **Coursework:** Computer Systems (OS, Users, and Hardware Interactions), Object-Oriented Programming (Data Structures, Complexity Analysis), Discrete Math, Calculus II and III, Linear Algebra, Statistics
- **Spring 2025 (Upcoming):** Algorithms, Organization of Programming Languages, Web Application Development
- **Campus involvements:** Marketing Lead- Google Developer Student Club (GDSC), Member- Association of Women in Computing (AWC), BigTh!nk AI

Experience

Ambassador, University of Maryland Computer Science Department - College Park Upcoming: Spring 2025

Tutor, The Academic Success and Tutorial Services (ASTS) - UMD, College Park October 2024-Current

- Tutored ~10 students in Object Oriented Programming I, Object Oriented Programming II, and Calculus II for 10 hours weekly (on average). Tutees consistently reported and demonstrated improved understanding of material.

Intern, Cybersecurity and Infrastructure Security Agency (CISA) - Washington DC November 2023

- Participated in the University Career Center's Intern for a Day program. Engaged with the JCDC Notification Coordination Team Lead at CISA, gaining insight into essential skills to expand opportunities in cybersecurity.

Intern, Nomura Services Pvt. Ltd. - Powai, India June 2022- July 2022

- Intern at the Data Management - Technology division. Created natural language processing models using Python Regex to identify and convert keywords in English language to SQL queries for the firm's trade data base.
- Optimized query time by writing code to join redundant table entries across databases and enhance vertical scalability.
- Identified discrepancies in data extraction.

Projects

Personal Website Ongoing

- Building a personal website. **Tools used**: HTML, CSS, JavaScript, MERN stack.

Digital Clock 2024

- Used x86-64 assembly to create an LCD clock display, translating from C. Gained practical assembly-C integration skills. **Tools Used**: C, x86-64 Assembly

Student Management System 2022-2023

- Built a student management software. Wrote comprehensive documentation, including - record of tasks, test plan for success criteria, detailed flowcharts and UML diagrams, record of communication with and feedback from the client. **Tools Used**: Python, SQL, MySQL, and Matplotlib

Technologies

- **Languages:** Python, Java, C, Assembly (x86), HTML, CSS, Javascript, SQL
- **Frameworks:** React.js, Node.js, Express.js, Scikit-learn, Matplotlib, Numpy, Seaborn, Pandas
- **Developer Tools/Databases:** Git, Figma, VS Code, Eclipse, Netbeans, Jupyter Notebook, MongoDB, MySQL
- **Courses:** Python for Financial Analysis and Algorithmic Trading (Udemy, Ongoing) | Full Stack Web Development for Beginners (freeCodeCamp, 2024) | Python for Data Science and Machine Learning Bootcamp (Udemy, 2022) | Complete Python Bootcamp (Udemy, 2021) | Financial Markets (Coursera, by Yale, 2021)