

Manasa Vinod Kumar

240-610-1925 | manasavinodkumar@gmail.com | [linkedin.com/in/manasavk](https://www.linkedin.com/in/manasavk) | github.com/manasalearnscoding

EDUCATION

University of Maryland-College Park

Bachelor of Science, Computer Science

Grad: Dec. 2026

College Park, MD

- Relevant Coursework: Computer Systems, Data Science, Machine Learning, Human Computer Interaction.
- Involvements: Hack4Impact, Google Developer Student Club (GDSC), Rewriting the Code (RTC), Codepath, Diamondback

EXPERIENCE

Market Risk Information Technology Intern

Nomura Securities International, Inc

June 2025 – August 2025

New York, NY

- Delivered a What-If tool pipeline improvement for risk managers by integrating third-party Python APIs into a Java-based OLAP system; authored the technical product specification and roadmap, and defined KPIs around request latency reduction
- Built a Java Spring solution, improving system simplicity and efficiency; collaborated cross-functionally, incorporated stakeholder feedback, and authored technical documentation
- Developed and tested a staging environment for the data cube, enabling data load, retrieval, and update workflows while maintaining production isolation

Undergraduate AI Research Assistant

CLIP Lab, UMIACS @ University of Maryland

February 2025 – January 2026

College Park, MD

- Led an independent research study on safety alignment in large language models, using jailbreak testing and mechanistic interpretability to identify bias and failure modes in model behavior; collaborated with PHDs to design experiments
- Refactored and extended a causal tracing framework for generative tasks, modularizing the codebase to support experimentation and analysis of model decision pathways
- Designed experiments and visualizations to evaluate model decision pathways; authored a research paper proposing jailbreak testing as a practical evaluation method for AI safety

Hack4Impact Sourcing Member

University of Maryland

September 2025 – January 2026

College Park, MD

- Sourced 50+ DMV-area nonprofits via cold outreach, assessing technical readiness, mission alignment, and software feasibility
- Led founder discovery calls to surface operational pain points; translated organizational needs into software problem statements
- Authored Product Requirements Documents (PRDs) for Hack4Impact's leadership board encompassing goal definitions, measurable success metrics, user personas, prioritized MVP requirements, user stories, wireframes, and technical dependencies

PUBLICATIONS & AWARDS

First Place Hackathon Winner | *TechTurnUp x UXTerps x Hack4Impact – UMD* [Prototype] [Presentation]

March 2026

- Led the design and delivery of CrewCreate- a safe, gamified, coding community platform for kids in underserved areas, in 72 hrs
- Conducted 20+ stakeholder interviews across 4 user segments, developed user personas, and synthesized pain points into a prioritized problem statement; Analyzed competitors and applied the DVF framework to define the MVP
- Created user journey maps and flows; Used vertical integration with client's merch store for rewards based incentive
- Designed the information architecture and refined Tech Turn Up's design system when crafting visual design w/ Figma
- Defined a post-MVP geography, field, and business model expansion roadmap; currently under client review for implementation

PROJECTS

Hack4Impact x RiseDC x Microsoft Hackathon - Product Manager | *RiseDC Cookbook*

June 2020 – Present

- Defined product vision and feature roadmaps, translating user needs into technical product specifications across core feature areas, set OKRs - delivered in under 10 days
- Owned end-to-end product delivery for a greenfield build, authored technical product documentation and defined a post-MVP roadmap to support handoff to the Long Term Success team
- Collaborated cross-functionally across design, engineering, and technical leadership - translating Figma wireframes into actionable engineering requirements and unblocking dependencies to maintain delivery momentum across sprints

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, TypeScript, HTML/CSS, R

Frameworks: React, Next.js, Node.js, Flask, Django, JUnit, Java Spring, WordPress, FastAPI

Developer Tools: Git, AWS, Docker, MongoDB, Firebase, Cassandra, Postman, PostgreSQL, GraphQL, Supabase, Vite, HuggingFace Transformers, Ollama

Libraries: pandas, NumPy, Matplotlib, Seaborn, scikit-learn, Pyorch, Tensorflow, Keras