Mann Parekh

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Education

University of Maryland, College Park   *Expected Spring 2027*
Double Major: Applied Mathematics and Economics
Dean's Merit List Spring 2025, Fall 2025 | Major GPA: 3.55

Relevant Coursework: CMSC 131 (Introduction to Object-Oriented Programming I), CMSC 132 (Introduction to Object-Oriented Programming II), CMSC 216 (Introduction to Computer Systems), CMSC 250 (Discrete Structures), MATH 140 (Calculus I), MATH 141 (Calculus II), MATH 240 (Introduction to Linear Algebra), MATH 241 (Calculus III), MATH 246 (Differential Equations), MATH 310 (Introduction to Mathematical Proof), MATH 401 (Applications of Linear Algebra), MATH 410 (Advanced Calculus I), MATH 423 (Linear Optimization), STAT 400 (Applied Probability and Statistics I), STAT 401 (Applied Probability and Statistics II), ECON 200 (Principles of Microeconomics), ECON 201 (Principles of Macroeconomics), ECON 325 (Intermediate Macroeconomic Analysis), ECON 326 (Intermediate Microeconomic Analysis), ECON 330 (Money and Banking), ECON 433 (Economics of Big Data).

Experience

Project Lead & FP&A Analyst Intern   *Nov 2025 - Jan 2026*
Healthy Amplified   College Park, MD
Focus: Directed comprehensive financial planning and analysis (FP&A) initiatives to drive capital efficiency and market expansion strategies within the Med-Tech sector. Partnered with C-suite leadership to refine commercialization roadmaps based on rigorous financial modeling and valuation assessments.
Work: Spearheaded strategic outreach and event coordination for a high-profile JPMorgan capital raising round. Synthesized complex clinical and operational data into executive-level dashboards to support investor due diligence. Executed cross-functional market research to optimize product positioning and streamline the delivery of medical technology solutions.

Handshake AI Researcher   *Oct 2025 — Dec 2025*
Handshake AI Fellowship   Remote
Focus: Validate and improve LLM outputs in mathematics, statistics, and data analysis; design rubrics and run small A/B tests.
Methods: Compute inter-rater agreement, analyze error classes, create edge-case test sets, and track data lineage for reproducible, audit-ready results.

Undergraduate Researcher   *Aug 2023 — Dec 2024*
University of Maryland - Department of Computing and Society   College Park, MD
Focus: Researched the effects and accuracy of AI in business analytics and portfolio management using Python and R.
Highlights: Built and evaluated predictive models; interpreted performance for decision support in finance contexts.
Program: Selected for the competitive First-Year Innovation and Research Experience (FIRE), a faculty-mentored research program.

AI Developer   *May 2024 — Jul 2024*
Mirae Asset   Mumbai, India
Impact: Helped retain over 30% of a mutual fund's client base by deploying an attrition (churn) prediction workflow and a dividend forecasting pipeline.
Work: Applied supervised learning and time-series forecasting in Python and R; partnered with a 20+ person AI team to identify drivers of client turnover and inform retention strategy.

Data Analysis and Operations Intern   *Jan 2023 - Apr 2023*
vPhrase Analytics Solutions   Remote
Focus: Optimized operational data workflows and enhanced reporting integrity for AI-driven business intelligence platforms. Focused on data quality assurance and the scalability of internal analytics processes.
Work: Conducted rigorous data validation and cleansing for large-scale datasets to support Natural Language Generation (NLG) model training. Collaborated with engineering teams to automate reporting pipelines, significantly reducing manual data processing time and improving operational efficiency.

Blockchain Development Researcher   *May 2022 — Sep 2022*
National High School Journal of Science   Remote
Publication: "Blockchain: Opportunities, Risks, and Applications" (mentor: Maria Konte, Georgia Tech), NHSJS 2022. (Link)
Scope: Evaluated blockchain platforms for performance, security, and applicability, highlighting how economic incentives influence adoption.

Machine Learning Engineer   *Mar 2022 — May 2022*
Clevered   Remote
Work: Contributed to applied AI projects under Dr. Ken Kahn (University of Oxford); strengthened experimentation, model interpretation, and reporting.

Software Intern   *May 2021 — Jul 2021*
Zaio   South Africa
Contribution: Supported the Ingenious Faces Marketplace with a 30+ person team; assisted in curriculum and platform tasks for beginner programming courses.

Projects

Application Developer   *Apr 2024 — May 2025*
Tailored - Thrifting App (App Dev Club at UMD)   College Park, MD
Summary: Created and launched *Tailored* on the App Store. Implemented web scraping and machine learning to personalize item recommendations.
Relevance: Data collection and recommendation logic mirror production data pipelines used in consumer finance and e-commerce analytics.

Co-Founder and President   *May 2021 — May 2023*
Tech Club at PACE IIT   Mumbai, India
Leadership: Co-founded the club; taught weekly technology sessions to cohorts of 40+ students; organized quizzes and robotics events; managed web and social presence.
Outcome: Built communication, team coordination, and project planning skills relevant to consulting and client-facing analytics roles.

AI-Based Object Detection System   *Aug 2021 — May 2022*
AI for Accessibility Project   Mumbai, India
Summary: Developed AI/ML prototypes for object and shape detection. Built a machine learning system with cane sensors to detect obstacles for visually impaired users.

Skills

Programming Languages: Python, R, SQL, Java, JavaScript, C, C++, MATLAB, HTML/CSS, x86-64 Assembly.
Libraries and Frameworks: PyTorch, Pandas, NumPy, Matplotlib, Keras.
Tools and Platforms: Microsoft Excel (PivotTables, VLOOKUP, Financial Modeling), QuickBooks, Google Cloud, Jupyter Notebook, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse.
Finance and Analytical Competencies: Financial Analysis and Modeling, Accounting Fundamentals, Budgeting and Cash Flow Management, Mathematics and Quantitative Analysis, Data Analysis and Visualization, Risk Assessment, Regulatory Compliance, Investment Principles and Valuation Techniques.
Professional Strengths: Communication, Teamwork, Problem Solving, Leadership, Adaptability, Time Management, Critical Thinking, Attention to Detail, Ethical Judgment.