

Yashovardhan Saraswat

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EDUCATION

University of Maryland

Bachelor of Science in Computer Engineering, Minor in Economics

College Park, MD

Expected Graduation: May 2028

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Digital Logic Design, Linear Algebra, Differential Equations, Calculus I & II

EXPERIENCE

Marriott Global

Quality Assurance Intern

Bethesda, MD

Jun 2025 – Aug 2025

- Automated QA scripts for Marriott.com and Bonvoy App, boosting booking reliability by 20% and reducing manual effort by 40%.
- Built cloud-based inventory tool in React, Python, and Firebase for real-time tracking of 200+ devices across 5 teams, leveraging distributed data storage.
- Collaborated in Agile sprints (planning, refinement, retrospectives) with 4 cross-functional teams to deliver high-reliability features.
- Evaluated 3 automation frameworks, improving test coverage by 25% and supporting product ROI growth.

University of Maryland

Undergraduate Teaching Fellow, ENEE101 — Introduction to Electrical & Computer Engineering

College Park, MD

Sep 2025 – Present

- Guided 12+ students weekly through computing systems, circuits, and signal processing, emphasizing Python/Java-based software fundamentals alongside hardware concepts.
- Mentored students individually and graded lab deliverables, reinforcing ECE principles through applied problem-solving.
- Collaborated with faculty and TAs to refine lab workflows and course materials, improving efficiency and adoption of instructional tools.

ABI Analytics

Financial Markets Data Analyst Intern

Mumbai, India

Dec 2022 – Jan 2023

- Developed automated analytics pipelines in Python/SQL to deliver actionable insights on 500+ NSE-listed stocks, mirroring data-driven product strategies.
- Boosted predictive model accuracy by 10% using trend analysis, feature engineering, and data visualization.
- Provided clients with investment entry signals, enabling maximized returns during market upswings.

RESEARCH

Applications of Big Data Analytics in Asset and Wealth Management

Published June 2023

- Leveraged big data analytics and Python-based statistical modeling to optimize wealth management strategies.
- Improved decision-making efficiency by 20%, aligning with AI-powered insights delivery.

AI-Driven Optimization of AGV Movement in Warehouse Management

Published August 2023

- Applied reinforcement learning models in Python to optimize AGV routing, showcasing practical deployment of AI for real-world operations.
- Achieved a 15% increase in operational efficiency and significant reduction in logistics costs.

PROJECTS

LaunchMate — AI Startup Assistant (Bitcamp 2025)

Apr 2025

- Built an AI-powered platform to support founders with personalized insights, startup roadmaps, and pitch generation.
- Integrated Google Gemini API (LLM) to power real-time recommendations and AI-driven market analysis.
- Developed and deployed full-stack app using TypeScript and MongoDB with seamless deployment via Vercel.
- Led frontend development and collaborated with teammates to deliver a live demo to stakeholders.

WealthQuest (HackNYU 2025)

Feb 2025

- Developed a gamified financial literacy platform with modules for budgeting, investing, and tax planning.
- Designed responsive front-end in React/Next.js with Gemini API integration, improving user engagement with AI-powered insights.
- Implemented FIRE calculators, cash-flow modeling, and multi-state tax tools during a 48-hour hackathon.

MedLLaMA — AI-Powered Healthcare Assistant

Jan 2025

- Developed a domain-specific healthcare assistant using the MedLLaMA LLM fine-tuned for medical queries and patient support.
- The project implemented retrieval-augmented generation (RAG) with vector databases to improve accuracy and reliability of responses.
- Built a Flask-based API with a React frontend, enabling real-time, AI-driven user interactions in a healthcare context.
- Explored prompt engineering and evaluation techniques to ensure safe and transparent model outputs.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript/TypeScript, SQL, HTML/CSS
- **Frameworks:** React, Next.js, Node.js, Flask, Firebase
- **AI/ML:** PyTorch, Reinforcement Learning, Pandas, NumPy, Matplotlib, Prompt Engineering, LLM APIs (Gemini, OpenAI)
- **Cloud/Systems:** REST APIs, GCP/AWS basics, Distributed Computing Fundamentals
- **Dev Tools:** Git, Linux, Jira, Charles Proxy, VMD, NAMD
- **Core Concepts:** OOP, Data Analysis, Predictive Modeling, Test Automation, Agile Development