

RITVIK RAVI

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EDUCATION

University of Maryland, College Park

Expected Graduation: May 2028

GPA: 3.76

- **B.S. in Computer Science & B.S. in Finance (Dual Degree)**
- Related Coursework: Algorithms Design & Analysis, Discrete Mathematics, Computer Systems, Object-Oriented Programming, Statistics & Applications, Linear Algebra, Intro to Artificial Intelligence, Intro to Machine Learning, Intro to Data Science, Programming Language Technologies and Paradigms, Economics, Accounting, Business Finance, Marketing Principles
- Business, Society, and Economy Scholars Program

SKILLS

- Python (Pandas, NumPy, Flask) • SQL (Supabase/Postgres, MySQL) • Java • JavaScript/React
- REST APIs • Git • Data Modeling • Machine Learning (Gradient Boost) • AWS (Lambda, S3, Athena, Glue, CloudWatch)

PROFESSIONAL EXPERIENCE

FINRA Software Development Intern

June 2026 - Aug 2026

- Worked within a **data landing** team, which develops enterprise infrastructure for collecting, processing, and analyzing **operational data across FINRA** and delivering it to the Operational Data Lake (ODL).
- Primarily tasked with building a **pipeline health monitoring and alerting platform** to automatically detect failures, latency issues, and operational anomalies across data ingestion and processing workflows, reducing reliance on manual validation and accelerating incident response.
- Contributed to the **migration of API** to a newer version by implementing a cleaner service architecture and introducing **pipeline health summary endpoints** to support monitoring and reporting requirements.
- Leveraging **AWS services** including Lambda, Step Functions, S3, Athena, Glue Data Catalog, CloudWatch, and Grafana, along with Python, Pydantic, Git, and JAMS scheduling infrastructure.

LIFT Project Lead

August 2025 - Present

- Partnered with local small business clients (One Cut Above, Olney, MD from 2024-25; Forging & Welding with Will, MD from 2025-26) to **modernize business operations** through custom web applications and workflow automation.
- **Led a cross-functional team** of 7 students for Forging & Welding with Will, gathering client requirements, coordinating development efforts amongst the team, and delivering weekly demos to align product direction with business goals.
- Designed and implemented a **full-stack e-commerce platform** using React, Tailwind CSS, Supabase (PostgreSQL), and Stripe, enabling product management, order tracking, newsletter publishing, admin workflows, and online checkout capabilities.

Stellar IT Solutions Research and Software Engineering Intern

June 2023 – May 2024

- Built a **Gradient Boost anomaly detection model** on multi-season NFL player performance data to flag outliers and support player “stock value” insights.
- Developed and queried **MySQL datasets** to prepare historical player performance data across 3 seasons for modeling and application workflows.
- Collaborated with a cross-time-zone team during UI/model reviews; documented findings and changes for iteration.

PROJECTS

MindTrace

May 2026 - Present

- Building an **AI-powered mental health intelligence platform** for college students to track mood, anxiety, stress, sleep, energy, exercise, journal entries, and life events through a mobile-first wellness dashboard.
- Designing a full-stack MVP using React, TypeScript, Tailwind CSS, FastAPI, Supabase Postgres, Supabase Auth, React Flow, Recharts, and OpenAI API integration.
- Developing a **Trigger Map system** to surface possible patterns such as “Exam Stress → Poor Sleep → Low Energy → Mood Drop” using rule-based relationship detection and safe, non-diagnostic AI reflections.
- Creating core product flows including baseline assessment, daily check-ins, AI journaling, goal planning, weekly reports, and dashboard snapshots with mock data ready for future Supabase persistence.

FINRAVERSE

June 2026

- **Led a team** of 6 to design and deliver FINRAVERSE, an **AI-powered employee engagement and learning platform** connecting **1,348 employees** across 8 departments through skill sharing, mentorship, training, and gamified collaboration.
- Architected and developed a full-stack application using Python, Flask, AWS Lambda, DynamoDB, Amazon Bedrock, S3, and modern web technologies, earning **2nd place among FINRA intern teams**.
- Built AI-powered recommendations, coffee chat matching, learning pathways, training quizzes, and employee discovery features using **organizational data** aggregated from 6 internal platforms.

UrbexHub

July 2025 - February 2026

- Building an anonymous geotagged platform with **4 content categories** (nature, buildings, underground, other) and interactive map-based discovery.
- Implementing map workflows to **drop pins, view posts, and filter/search** by category/location; currently prototyping the main user flows end-to-end.
- Designing backend storage for **posts + location metadata**, focusing on privacy-first data separation and scalable retrieval.

MeetupMate

August 2025 - June 2026

- Developing a **full-stack web app** to support user-created restaurant meetups with RSVPs and attendance-based rewards.
- Implementing secure **authentication** and friend connections, tracking participation, and dynamic reward thresholds.
- Building a mobile-friendly React UI with routing and state management to support core user flows.