

Mann Vora

M.S. in Computer Science, Arizona State University — Former Software Developer, RaftLabs

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Education

Arizona State University

M.S. in Computer Science | GPA: 3.94 / 4

Jan 2024 - Expected Dec 2025

Tempe, AZ

Gujarat Technological University

Bachelors of Engineering in Computer Engineering | GPA: 8.79 / 10

Jul 2019 - Jun 2023

Gujarat, India

Professional Experience

RAFTLABS

Software Developer Intern

Jan 2023 - Nov 2023

Ahmedabad, Gujarat, India

- Designed **data ingestion modules** with senior software engineer to integrate and collect structured real-time data from multiple food delivery platforms for the **GULA** project, funded by **East Ventures**.
- Enabled **data-driven decisions** for **Flash Coffee** and **Domino's Pizza** by integrating Metabase and creating interactive dashboards, reducing late order preparation by 35%.
- Prototyped a geosharding solution with the team using the **S2 Geometry** Library to partition order data by region, reducing query latency by 70% and ensuring sub-120ms response times for localized queries.
- Developed a **webhook system** for client transaction notifications, achieving a 92% delivery success rate with automated retries for failed notifications using DLQ, ensuring timely updates and enhancing client engagement.
- Designed a **rate-limiting feature** and **caching strategy** for static pages in the **TIGERPAY** project to reduce high-frequency API calls, reducing server load by 25% during peak hours.

TATVASOFT

Software Developer Intern

Jun 2022 - Jul 2022

Anand, Gujarat, India

- Architected a scalable and cost-effective **serverless solution using AWS services**, including **S3** for storing and serving over 1000+ product images, **DynamoDB** for managing product catalogs with sub-10ms read/write performance.
- Integrated **CI/CD** pipelines using **GitHub Actions** to automate deployment, reducing deployment time by 60%.
- Reduced API response times to 400ms using **GraphQL**, cutting latency by 60% and enhancing user experience.
- Automated infrastructure provisioning with **AWS CloudFormation**, automating resource creation and ensuring 100% consistency across staging and production environments.
- Integrated **Stripe** for secure online transactions, processing 10,000+ monthly orders.

Projects

VIDEO TRANSCODER | *React.js, Node.js, AWS*

May 2024 - Jun 2024

- Architected a highly scalable, **serverless video transcoding pipeline** to process up to 10+ user-uploaded videos leveraging AWS services like **S3, Lambda, SQS, ECS, and Docker**.
- Conducted **AWS CloudWatch** performance audits, increasing system throughput by 50% and preventing bottlenecks.
- Implemented a **Dead Letter Queue (DLQ)** for failed video transcodes, which captured errors and diminished manual error handling by 30%, optimizing system robustness.

Credit Card Fraud Detection System | *Pytorch, Numpy, Matplotlib, Python*

Feb 2024 - Apr 2024

- Developed an **SVM-based** credit card fraud detection model with 99.88% accuracy, reducing false positives.
- Applied **PCA** and streamlined **preprocessing**, improving response time by 35% for near real-time detection.
- Boosted fraud recall by 25% through an **ensemble** approach, improving detection of diverse behaviors and outliers.

WANDERLY | *React.js, Express.js, MongoDB, GraphQL*

Aug 2022 - Nov 2022

- Engineered a travel advisory system using **Google Maps API** and Geo-location, reducing user search time for nearby restaurants, hotels, and attractions by 40%, enhancing travel planning efficiency.
- Enhanced user satisfaction by 30% with custom filters for **sorting locations** by type or rating, enabling easy venue selection.
- Incorporated **real-time weather forecasts**, resulting in a 40% increase in user engagement by providing accurate updates.

Technical Skills

- Programming Languages:** C++, JavaScript, Typescript, Java, Python, SQL
- Frameworks & Libraries:** React.js, Node.js, Matplotlib, Pandas, Numpy, GraphQL, Springboot
- Databases:** MySQL, PostgreSQL, MongoDB, AWS DynamoDB
- Concepts:** Software Development Life Cycle (SDLC), Agile, Scrum, Test-Driven Development (TDD), OOPS
- Cloud & DevOps:** AWS, CI/CD, Docker, Kubernetes, Terraform, CloudFormation, Git, Github
- Performance Tools:** Grafana, Prometheus, AWS Cloudwatch

Certifications and Technical Achievements

- Secured **AIR 378** in **Meta Hacker Cup Round 1**
- Secured **AIR 377** and **AIR 591** in **ICPC Amritapuri and Gwalior Pune Regionals, Jun 2020**
- Udemy Certifications: Fundamentals of Backend Engineering, Data Structures and Algorithms, Serverless Apps with AWS