

RAJ JAYESH VORA

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Experience

Full Stack Engineer | *University of Florida (HMN Lab)* | Gainesville, Florida **February 2024 – Present**

- Accelerating research workflow for 5 person PhD team by speeding up data processing by **60%**.
- Leveraging **AWS Amplify** for seamless data integration, built a **NextJS** dashboard for data analysis and modelling.
- Automating data analysis using **Python and MATLAB** algorithms, resulting in a **30%** faster hypotheses validation.
- Innovated 3 **Flutter** apps to collect neuromuscular and phonetic information, leading to **50%** efficient data collection.
- Crafted user-centric, responsive mobile interfaces in **Figma**, driving a **60%** improvement in overall user experience.

Web Application Developer | *media.net* | Mumbai, India **January 2022 – July 2022**

- Spearheaded and remediated **API proxy service** to reduce first paint time and page load time by **50%**.
- Implemented 7 data pipelines using **Spring and Elasticsearch**, improving data processing stream efficiency by **20%**.
- Devised 3 logging infrastructures visualized using **Apache Kafka** to increase logs availability and integrity by **25%**.
- Refined the ad pixel tracking workflow using **Logstash and Spring boot**, leading to a **20%** increase in revenue.
- Revamped core **Redis** cache design for ad monetization APIs, optimizing page load times by **800ms** in hits and reduced cache staleness via integration of event-based orchestration.

Associate Web Developer | *media.net* | Mumbai, India **January 2021 – December 2021**

- Migrated **CakePHP** from singleton to factory pattern, cutting load time by **500ms** and boosting revenue by **10%**.
- Orchestrated and optimized 6 **Kubernetes** clusters for **API and backend services**, improving load distribution and reducing downtime by **20%**.
- Enhanced internal dashboard designed in **React** by creating 6 streamlined workflows to improve operational efficiency.
- Maintained a hybrid web architecture integrating **WordPress and PHP**, across **700+** ad-driven websites.
- Coordinated system architecture development to serve **Laravel** websites utilizing multiple micro-services.

Education

University of Florida | *Gainesville, FL* **August 2022 – May 2024**

Master of Science in Computer Science

Coursework: Distributed OS Principles, Computer Vision, UX Design, Penetration Testing

University of Mumbai | *Mumbai, India* **August 2016 – October 2020**

Bachelor of Science in Computer Science

Coursework: Data Structures, Object Oriented Programming, Database Management, Cloud

Technical Skills

Languages: Java, PHP, Dart, Javascript, Typescript, Python, SQL

Frameworks: Laravel, Flutter, Django, Spring Boot, NextJS, Android, NodeJS, React, Flask, Angular, FastAPI

Technologies: ClickUp, Git, Redis, REST, GraphQL, PostgreSQL, Firebase, MongoDB, MySQL, Jira, Apache Kafka, ElasticSearch, Logstash, Grafana, Prometheus, Sentry, Linear

DevOps: AWS, GCP, Linux, Heroku, Docker, Gitlab, CICD, Jenkins, ArgoCD, Github Actions

Projects

Cache Up | *MCP, OpenAI, NextJS, Flutter, Docker, Vercel, Fast API*

- Engineered an **AI-powered** news app that automatically scraped and summarized top Hacker News stories daily using **NLP**, reducing reading time by **80%** with concise **200-word** summaries.
- Streamlined end-to-end delivery pipeline, from content extraction to UI presentation, achieving a **60%** boost in user engagement through a fast, distraction-free interface.

Expense Manager | *HTML, CSS, Javascript, PHP, MySQL*

- Developed a expense manager for individuals and groups, improving budget tracking efficiency by **40%**.
- Accomplished **OCR for receipt scanning**, auto-extracting bill amounts and restaurant names, cutting manual entry time by **70%** during KJSCE HACK 2019.

Travnal | *React, NodeJS, ExpressJS, MongoDB*

- Designed a travel-focused social media platform enabling users to create, share, and explore trips with real-time location tagging, boosting content engagement by **50%**.
- Implemented features like personalized timelines, search, and follower systems, enhancing user retention and discovery of travel content by over **40%**.