

Animesh Srivastava

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Education

University of Southern California,
Master of Science in Computer Science (GPA: 3.6/4)

August 2023 – May 2025 | Los Angeles, USA

MS Ramaiah University of Applied Sciences,
Bachelor of Technology in Computer Science and Engineering (GPA: 3.67/4)

August 2017 – June 2021 | Bangalore, India

Professional Experience

Founding Engineer, Redvest

May 2024 – October 2024 | Los Angeles, USA

- Designed and implemented scalable financial **data pipelines** using **Python multithreading** and **Firebase**, reducing **distributed systems**' data processing latency by **40%**.
- Built a **React**-based analytics dashboard to visualize real-time financial metrics, improving operational efficiency.
- Led a team to define MVP features aligned with investor and user needs, streamline development workflows, and manage 30+ **GitHub** repository merges for on-time delivery.
- Represented Redvest at **TechCrunch Disrupt 2024**, showcasing the platform to investors and early adopters, increasing visibility and generating user interest.

Data Engineer, American Express

January 2021 – July 2023 | Bangalore, India

Worked on two projects, **IDL (Indian Data Localization) & Travel and Lifestyle Services**

- Collaborated with compliance and business stakeholders** to engineer a data migration solution for regulatory compliance (IDL), using **PL/SQL** and **OFSA** to reduce data risk by 50% and ensure robust data governance.
- Developed and owned a reusable **data reconciliation product** using **Java** and **PL/SQL**; this automation tool saved 20+ hours weekly and was adopted by analytics teams to ensure data quality across multiple systems.
- Architected and deployed scalable ETL pipelines using **Python (PySpark)** to ingest data from **diverse sources including application APIs** and databases, transforming it for a **NoSQL (MongoDB)** data warehouse to support downstream analytics and data science initiatives.
- Improved data pipeline reliability and performance by monitoring and **tuning production SQL jobs (MySQL)** and implementing robust **JSON** validation for data ingested from **REST APIs**, ensuring high data availability.
- Managed the full **CI/CD** lifecycle for **data products** using **GitHub Actions**, automating build, test, and deployment workflows to increase development velocity and ensure production stability.

Mobile App Developer Intern, Unglezi

September 2020 – November 2020 | Bangalore, India

- Developed intuitive **authentication** and flashcard pages using **Figma** designs and implemented them into functional user interfaces with **Flutter**, enhancing user experience and app performance by 30%.
- Led the deployment of **Firebase Authentication API** and integrated Google Sign-In for the Flipping app(English Learning App), which increased account access speeds by 60%.

Projects

Contortion – 2D Platformer Game | Unity, C#, Firebase, GitHub

October 2024 – December 2024

- Designed and developed **core game mechanics**, including gravity manipulation, teleportation, and dynamic obstacles, using **Unity** and **C#**.
- Integrated real-time analytics with **Firebase** and **Python**, tracking player interactions, deaths, and level progression for data-driven improvements.
- Optimized UI/UX** and level design through iterative **playtesting**, enhancing game balance, engagement, and user experience.

US Stock Market Portfolio | React.js, Express.js, Node.js, MongoDB, Android, GCP, jQuery, Flask, AWS

March 2024 – March 2024

- Built a **responsive**, full-stack stock market analysis platform leveraging **React.js**, **Bootstrap**, and **Node.js**, enabling seamless integration of real-time stock data with **MongoDB** and deployed the application on **AWS**.
- Implemented **RESTful APIs** in the backend for real-time updates on price history, market trends, and user-specific portfolio tracking, enhancing usability and system reliability.
- Developed an **Android** application '**Stocks**' in **Java** using the same **Node.js** backend ensuring cross-platform accessibility. ([Link to the App](#))
- Prior to the React version, engineered a dynamic stock data web app using **Flask** and **jQuery**, integrating with the **Finnhub API** and deployed on **GCP**. Leveraged **AJAX** for real-time updates on charts, news, and prices, laying the foundation for the React-based system.

Trip Planner and Recommender using Flutter and Tensorflow, | Flutter, TensorFlow, Python

January 2021 – June 2021

"Published research paper at IEEE"

- Scraped TripAdvisor data & utilized **ETL** techniques & developed a trip-planning **recommendation system** using **TensorFlow** and **collaborative & content-based** filtering techniques, delivering highly personalized suggestions based on user preferences.
- Designed and deployed a **Flutter**-based app with a seamless interface, integrating the recommendation model to provide tailored suggestions based on individual preferences and interests. Incorporated user feedback for a cohesive and visually appealing experience. ([Link to the App](#))

A Conceptual Model Simulation to Detect and Report City Traffic Violations Using Distributed

February 2020 – July 2020

Intelligent Agents, "Published research paper at IEEE" | Java, MySQL

- Designed a simulation model in **Java** for detecting and reporting traffic violations in real-time using the **multi-threading** concept, integrating it with **MySQL** for scalable database support enabling automatic updating of traffic violation records.

Skills

Programming Languages: Java, Dart, C, C++, Python, JavaScript, TypeScript

Mobile Application Development: Flutter, Java, React Native, Android Studio

Web Development, Libraries/Framework: HTML, CSS, XML, Node.js & ExpressJS, Angular, React.js, Flask, Django, jQuery

Game Development: Unity, C#

Database & Tools: MySQL, PL/SQL, Firebase, Hive & Spark, OFSA, Hadoop, MongoDB, DynamoDB

Cloud Platforms: AWS, Google Cloud, Git, Photoshop, Figma, Jira

Methodologies: Agile, Scrum, CI/CD Pipelines(GitHub Actions, Docker)