Animesh Srivastava

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Education

University of Southern California,   August 2023 – May 2025 | Los Angeles, USA
Master of Science in Computer Science (GPA: 3.5/4)

MS Ramaiah University of Applied Sciences,   August 2017 – June 2021 | Bangalore, India
Bachelor of Technology in Computer Science and Engineering (GPA: 3.67/4)

Professional Experience

Software Development Engineer Intern, 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 streamline development workflows, managing 30+ repository merges on **Github** and delivering projects on schedule.

Backend Developer, Tata Consultancy Services (TCS)   January 2021 – July 2023 | Bangalore, India
Client: American Express(AMEX) - Worked on two projects, **IDL (Indian Data Localization)** & **Travel and Lifestyle Services**

- Enhanced regulatory compliance by **reducing data risks** by **50%** using **OFSAA** and **PL/SQL** to validate and migrate 30+ guidelines onto IDL local servers.
- Automated report retrieval, data comparison, and discrepancy resolution with **Java**, saving 20 hours per week of manual work. Ensured fault-tolerant server communication and migration using **Putty** and **PL/SQL**.
- Designed efficient **ETL pipelines** using **PySpark**, **Python**, and **PL/SQL** for data handling, performing transformations and aggregations with **MongoDB** queries for optimized processing and 100% accuracy.
- Resolved **MySQL job failures** and implemented **JSON** path validation for precise file ingestion, improving data processing reliability and accuracy.
- Developed **5 backend** features to enhance user experience and monitored **SQL jobs** in the production environment to ensure reliability and minimize downtime.

Mobile App Developer Intern, Ungrezi   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 🔗   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, Bootstrap, MongoDB, Android, GCP 🔗   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**.
- 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. *(Link to the App)*

US Stock Details | JavaScript, jQuery, Flask, Python, Ajax, HTML & CSS, GCP 🔗   February 2024 – February 2024

- Developed a **dynamic website** for US stock information utilizing **JavaScript**, **jQuery**, **HTML**, and **CSS** to facilitate real-time stock data retrieval.
- Implemented **Flask** to interact with the **Finnhub API** on the back end, enabling efficient processing of stock details based on user inputs.
- Utilized **AJAX** in **JavaScript** to seamlessly update the front end, providing users with live stock information including news, charts, company details, and prices, thereby **enhancing** the **user experience**.

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
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, OFSAA, Hadoop, MongoDB, DynamoDB
Cloud Platforms: AWS, Google Cloud, Git, Photoshop, Figma, Jira
Methodologies: Agile, Scrum, CI/CD Pipelines