

# 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

### Software Engineer and Researcher, Easley Dunn Productions

June 2025 – Present | Los Angeles, USA

- Developed an interactive VR surgical training prototype in **Unity** using **C#** and the **XR Interaction Toolkit**, implementing an immersive **floating UI** (diegetic UI) with event-driven logic for tool selection, equipping, and **physics-based** handling (**Rigidbody** manipulation).
- Engineered a session record-and-replay system in **C#** for training assessment, with **JSON** data persistence to save and load user progress.
- Scripted unique **C#** interaction logic for virtual tools (scalpel, drill, marker) to enable procedural drawing and object interaction on **3D anatomical models in a VR environment**.
- Designed and debugged the tool state management lifecycle for seamless **User Experience (UX)**, correctly parenting objects to controllers and managing tool-swapping logic.

### Software Engineer(Founding Engineer), Redvest

May 2024 – October 2024 | Los Angeles, USA

- Designed and implemented scalable financial **data pipelines** using **Python multithreading** and **Firebase**, reducing data latency by **40%**.
- Built a **React**-based analytics dashboard for real-time financial metric visualization, improving operational efficiency.
- Led MVP feature development aligned with investor and user requirements, managing **30+ GitHub PR merges** to ensure timely delivery.
- Presented Redvest at **TechCrunch Disrupt 2024**, increasing platform visibility and driving early user adoption.

### Backend Developer, American Express(via TCS)

January 2021 – July 2023 | Bangalore, India

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

- Improved compliance by **reducing data risk by 50%** through **OFSA** and **PL/SQL** validation and migration of 30+ regulatory guidelines.
- Automated report retrieval, data comparison, and discrepancy resolution with **Java**, saving 20 hours per week of manual work.
- Developed **ETL** pipelines using **PySpark**, **Python**, and **PL/SQL**, integrating with **MongoDB** for 100% accuracy in data processing.
- Fixed **MySQL** job failures and implemented **JSON** path validation to enhance data ingestion precision.
- Built and deployed 5 backend features to support business logic and improve customer experience.
- Monitored **SQL** jobs in production to ensure system reliability and minimize downtime.

## Projects

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

October 2024 – December 2024

- Built **core game mechanics**, including gravity manipulation, teleportation, and interactive dynamic obstacles, using **Unity** and **C#**.
- Integrated real-time analytics with **Firebase** and **Python**, tracking player interactions, deaths, and level progression for balancing and gameplay improvements.
- Enhanced 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

- Built a **responsive**, full-stack stock market analysis platform using **React.js**, **Bootstrap**, and **Node.js**, enabling seamless integration of real-time stock data fetched from **Finnhub API** with **MongoDB** backend 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](#))
- Previously built an earlier version in **Flask** with **jQuery** and **AJAX** using **Finnhub API**, deployed on **Google Cloud**.

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

February 2020 – July 2020

- 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:** Python, Java, C, JavaScript, TypeScript, C++, Dart

**Web and Backend:** React.js, Node.js, Express.js, Flask, Django, Angular, jQuery, HTML, CSS, XML

**Game Development:** Unity, C#

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

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

**Cloud & DevOps:** AWS, Google Cloud, Git, GitHub Actions, Docker

**Other Tools:** Figma, Jira, Photoshop

**Methodologies:** Agile, Scrum, CI/CD Pipelines