

# Animesh Srivastava

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## Education

<b>University of Southern California</b>   Los Angeles, USA Master of Science in Computer Science (GPA: 3.6/4)	August 2023 – May 2025
<b>MS Ramaiah University of Applied Sciences</b>   Bangalore, India Bachelor of Technology in Computer Science and Engineering (GPA: 3.67/4)	August 2017 – June 2021

## Work Experience

<b>Software Engineer and Researcher, Easley Dunn Productions</b>   Los Angeles, USA	June 2025 – Present
• Built a VR surgical-training prototype in <b>Unity (C#)</b> with session record-and-replay using a JSON-based format for trainer analytics.	
• Designed diegetic floating UI with interaction analytics, increasing UI engagement by approx 20%, and improving task flow.	
<b>Full Stack Software Engineer(Founding Engineer), Redvest</b>   Los Angeles, USA	May 2024 – October 2024
• Reduced financial data latency by 40% by building <b>multithreaded Python data pipelines</b> and optimizing <b>Firebase</b> ingestion.	
• Built and deployed internal analytics dashboards using <b>React</b> and <b>Node/Python</b> backend services, containerized with <b>Docker</b> and orchestrated on <b>AWS EKS</b> to support scalable KPI monitoring, reducing manual data checks by <b>60%</b> .	
• Led core feature development across <b>30+ Github PRs</b> , boosting user engagement by 20% & presented at <b>TechCrunch Disrupt 2024</b> .	
<b>Software Engineer, American Express(via TCS)</b>   Bangalore, India	January 2021 – July 2023
Worked on two projects, <b>IDL (Indian Data Localization)</b> and <b>Travel and Lifestyle Services</b>	
• Built data ingestion and transformation pipelines using <b>Python</b> , <b>PySpark</b> , <b>PL/SQL</b> , and <b>SQL</b> , processing multi-source financial data with <b>100% daily load accuracy</b> across OFSAA, MySQL, and MongoDB.	
• Automated <b>RBI-compliant</b> data localization validations by migrating <b>30+ regulatory guidelines</b> , reducing compliance risk by <b>50%</b> .	
• Optimized <b>PL/SQL</b> , <b>ETL</b> , & data quality checks across <b>Hive &amp; Oracle</b> , improving consistency across Silver, Gold, & Platinum production layers.	
• Developed internal <b>REST APIs</b> and automation tools in <b>Java</b> , supporting <b>50K+ daily transactions</b> and saving <b>20+ hours/week</b> .	
• Improved production stability by automating ingestion monitoring & <b>SQL job validation</b> , reducing recurring failures and downtime.	

## Projects

### Animatrix AI Agent - Product Review Aggregator

- Designed and built **Python** backend services to ingest, normalize, and store external product data using **SerpAPI** into a **Postgres (Supabase)** pipeline.
- Implemented **Redis**-backed worker queues for parallel scraping, retries, and task orchestration, enabling scalable product analysis and data enrichment.
- Integrated structured storage of product metadata and **LLM** summaries in **MongoDB** and designed the system to support new data sources without disrupting existing workflows.

### Contortion – 2D Platformer Game

- Designed gravity and environment-manipulation mechanics, integrated real-time analytics with **Firebase** and **Python** to track player behaviors and tuned levels using data-driven playtests.

### US Stock Market Portfolio

- Built full-stack platform using **React** and **Node** designing **REST APIs** for real-time stock market data and optimizing **MongoDB** queries cutting API response time by 20%.
- Developed shared backend services, deployed on **AWS** (EC2/S3/CloudFront) and built a companion **Android** app, ensuring consistent cross-platform behavior between Web and Android app.

## Research Papers

- Trip Planner and Recommender using Flutter and Tensorflow - "IEEE"
- Conceptual Model Simulation to Detect and Report City Traffic Violations Using Distributed Intelligent Agents - "IEEE"

## Skills

**Languages & Frameworks:** Python, Java, JavaScript, TypeScript, C/C++, Dart, React.js, Node.js, Express.js, Flask, Django, HTML, CSS

**Database:** MySQL, PL/SQL, MongoDB, Redis(Caching, Queuing), PostgreSQL, Hive, Spark, NoSQL, DynamoDB, Firebase, Qdrant

**AI & ML:** Strands, LangGraph, LangChain, RAG, Agentic AI, TensorFlow

**Cloud & DevOps:** AWS(EKS, EC2, S3, Lambda), Google Cloud(App Engine), Docker, GitHub Actions, REST APIs, GraphQL, OFSAA, Git

**Mobile and Game Development:** Android(Android Studio), React Native, Unity, C#, Flutter, Figma