

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<i>"Published research paper at IEEE"</i>	
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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, OFSAA, Hadoop, NoSQL, DynamoDB

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

Other Tools: Figma, Jira, Photoshop

Methodologies: Agile, Scrum, CI/CD Pipelines