

# 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
<ul style="list-style-type: none"><li>Designed and implemented scalable financial <b>data pipelines</b> using <b>Python multithreading</b> and <b>Firebase</b>, reducing <b>distributed systems'</b> data processing latency by <b>40%</b>.</li><li>Built a <b>React</b>-based analytics dashboard to visualize real-time financial metrics, improving operational efficiency.</li><li>Led a team to define MVP features aligned with investor and user needs, streamline development workflows, and manage 30+ <b>GitHub</b> repository merges for on-time delivery.</li><li>Represented Redvest at <b>TechCrunch Disrupt 2024</b>, showcasing the platform to investors and early adopters, increasing visibility and generating user interest.</li></ul>	
Data Engineer, American Express	January 2021 – July 2023   Bangalore, India
Worked on two projects, <b>IDL (Indian Data Localization)</b> & <b>Travel and Lifestyle Services</b>	
<ul style="list-style-type: none"><li><b>Collaborated with compliance and business stakeholders</b> to engineer a data migration solution for regulatory compliance (IDL), using <b>PL/SQL</b> and <b>OFSA</b> to reduce data risk by 50% and ensure robust data governance.</li><li>Developed and owned a reusable <b>data reconciliation product</b> using <b>Java</b> and <b>PL/SQL</b>; this automation tool saved 20+ hours weekly and was adopted by analytics teams to ensure data quality across multiple systems.</li><li>Architected and deployed scalable ETL pipelines using <b>Python (PySpark)</b> to ingest data from <b>diverse sources including application APIs</b> and databases, transforming it for a <b>NoSQL (MongoDB)</b> data warehouse to support downstream analytics and data science initiatives.</li><li>Improved data pipeline reliability and performance by monitoring and <b>tuning production SQL jobs (MySQL)</b> and implementing robust <b>JSON</b> validation for data ingested from <b>REST APIs</b>, ensuring high data availability.</li><li>Managed the full <b>CI/CD</b> lifecycle for <b>data products</b> using <b>GitHub Actions</b>, automating build, test, and deployment workflows to increase development velocity and ensure production stability.</li></ul>	
Mobile App Developer Intern, Ungrezi	September 2020 – November 2020   Bangalore, India
<ul style="list-style-type: none"><li>Developed intuitive <b>authentication</b> and flashcard pages using <b>Figma</b> designs and implemented them into functional user interfaces with <b>Flutter</b>, enhancing user experience and app performance by 30%.</li><li>Led the deployment of <b>Firebase</b> Authentication <b>API</b> and integrated Google Sign-In for the Flipping app(English Learning App), which increased account access speeds by 60%.</li></ul>	

## Projects

Contortion – 2D Platformer Game   Unity, C#, Firebase, GitHub	October 2024 – December 2024
<ul style="list-style-type: none"><li>Designed and developed <b>core game mechanics</b>, including gravity manipulation, teleportation, and dynamic obstacles, using <b>Unity</b> and <b>C#</b>.</li><li>Integrated real-time analytics with <b>Firebase</b> and <b>Python</b>, tracking player interactions, deaths, and level progression for data-driven improvements.</li><li><b>Optimized UI/UX</b> and level design through iterative <b>playtesting</b>, enhancing game balance, engagement, and user experience.</li></ul>	
US Stock Market Portfolio   React.js,Express.js,Node.js,MongoDB,Android,GCP, jQuery,Flask,AWS	March 2024 – March 2024
<ul style="list-style-type: none"><li>Built a <b>responsive</b>, full-stack stock market analysis platform leveraging <b>React.js</b>, <b>Bootstrap</b>, and <b>Node.js</b>, enabling seamless integration of real-time stock data with <b>MongoDB</b> and deployed the application on <b>AWS</b>.</li><li>Implemented <b>RESTful APIs</b> in the backend for real-time updates on price history, market trends, and user-specific portfolio tracking, enhancing usability and system reliability.</li><li>Developed an <b>Android</b> application '<b>Stocks</b>' in <b>Java</b> using the same <b>Node.js</b> backend ensuring cross-platform accessibility. <a href="#">(Link to the App)</a></li><li>Prior to the React version, engineered a dynamic stock data web app using <b>Flask</b> and <b>jQuery</b>, integrating with the <b>Finnhub API</b> and deployed on <b>GCP</b>. Leveraged <b>AJAX</b> for real-time updates on charts, news, and prices, laying the foundation for the React-based system.</li></ul>	
Trip Planner and Recommender using Flutter and Tensorflow,   Flutter, TensorFlow, Python	January 2021 – June 2021
<b>"Published research paper at IEEE"</b>	
<ul style="list-style-type: none"><li>Scraped TripAdvisor data &amp; utilized <b>ETL</b> techniques &amp; developed a trip-planning <b>recommendation system</b> using <b>TensorFlow</b> and <b>collaborative &amp; content-based</b> filtering techniques, delivering highly personalized suggestions based on user preferences.</li><li>Designed and deployed a <b>Flutter</b>-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. <a href="#">(Link to the App)</a></li></ul>	
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"><li>Designed a simulation model in <b>Java</b> for detecting and reporting traffic violations in real-time using the <b>multi-threading</b> concept, integrating it with <b>MySQL</b> for scalable database support enabling automatic updating of traffic violation records.</li></ul>	

## 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, OFSAA, Hadoop, MongoDB, DynamoDB
Cloud Platforms: AWS, Google Cloud, Git, Photoshop, Figma, Jira
Methodologies: Agile, Scrum, CI/CD Pipelines(GitHub Actions, Docker)