

# Animesh Srivastava

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## Education

University of Southern California, Master of Science in Computer Science (GPA: 3.5/4)	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 Development Engineer Intern, 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 streamline development workflows, managing 30+ repository merges on <b>Github</b> and delivering projects on schedule.</li></ul>	
Backend Developer, Tata Consultancy Services (TCS)	January 2021 – July 2023   Bangalore, India
<b>Client: American Express(AMEX)</b> - Worked on two projects, <b>IDL (Indian Data Localization)</b> & <b>Travel and Lifestyle Services</b>	
<ul style="list-style-type: none"><li>Enhanced regulatory compliance by <b>reducing data risks</b> by <b>50%</b> using <b>OFSAA</b> and <b>PL/SQL</b> to validate and migrate 30+ guidelines onto IDL local servers.</li><li>Automated report retrieval, data comparison, and discrepancy resolution with <b>Java</b>, saving 20 hours per week of manual work. Ensured fault-tolerant server communication and migration using <b>Putty</b> and <b>PL/SQL</b>.</li><li>Designed efficient <b>ETL pipelines</b> using <b>PySpark</b>, <b>Python</b>, and <b>PL/SQL</b> for data handling, performing transformations and aggregations with <b>MongoDB</b> queries for optimized processing and 100% accuracy.</li><li>Resolved <b>MySQL job failures</b> and implemented <b>JSON</b> path validation for precise file ingestion, improving data processing reliability and accuracy.</li><li>Developed <b>5 backend</b> features to enhance user experience and monitored <b>SQL jobs</b> in the production environment to ensure reliability and minimize downtime.</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 	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, Bootstrap, MongoDB, Android, GCP 	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>.</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. <a href="#">(Link to the App)</a></li></ul>	
US Stock Details   JavaScript, jQuery, Flask, Python, Ajax, HTML & CSS, GCP 	February 2024 – February 2024
<ul style="list-style-type: none"><li>Developed a <b>dynamic website</b> for US stock information utilizing <b>JavaScript</b>, <b>jQuery</b>, <b>HTML</b>, and <b>CSS</b> to facilitate real-time stock data retrieval.</li><li>Implemented <b>Flask</b> to interact with the <b>Finnhub API</b> on the back end, enabling efficient processing of stock details based on user inputs.</li><li>Utilized <b>AJAX</b> in <b>JavaScript</b> to seamlessly update the front end, providing users with live stock information including news, charts, company details, and prices, thereby <b>enhancing the user experience</b>.</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</b> &amp; <b>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
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