

# Animesh Srivastava

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## Summary

Aspiring software and data engineer with 3+ years of experience, specializing in scalable data pipelines, distributed systems, APIs, and full-stack web and game development. Proficient in Python, Java, Unity, and React, with expertise in cloud platforms, agile methodologies, and data engineering tools. Skilled at solving technical challenges and driving impactful projects in dynamic teams with innovative problem-solving and operational excellence.

## 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 Developer 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 for cross-functional teams.</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>OFSA</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, which increased account access speeds by 60%.</li></ul>	

## Projects

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