

# SHAIL PATEL

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## EDUCATION

<b>San Francisco State University, San Francisco, California, USA</b> [GPA-3.6/4]	<b>August 2023 – May 2025</b>
Master of Science: Computer Science	
• <i>Relevant Coursework:</i> Software Engineering, Database Management, Analysis of Algorithms, Artificial Intelligence, Data Mining.	
<b>Vellore Institute of Technology, Tamil Nadu, India</b> [GPA-3.5/4]	<b>July 2019 – January 2023</b>
Bachelor of Science: Computer Science	
• <i>Relevant Coursework:</i> Web Development, Object Oriented Programming (OOP), Data Structures, Machine Learning, Cloud Computing.	

## WORK EXPERIENCES

<b>Software Engineering Intern- <i>Second Spectrum</i>- Los Angeles, California (React.js, Typescript, AWS)</b>	<b>[June 2024 – August 2024]</b>
• Engineered a play-by-play dashboard that supported real-time NBA data processing and handling over 100,000 events per game.	
• Designed the frontend using React and TypeScript, resulting in a 15% improvement in user interaction speed. Utilized AWS services such as Lambda and S3 to create a fault-tolerant, highly scalable backend capable of processing and reconciling data with sub-second latency.	
• Improved video content delivery efficiency by 25% through optimized data feed reconciliation, contributing to more accurate and timely analytics for coaches and sports analysts.	
<b>Graduate Teaching Assistant- <i>San Francisco State University</i>- San Francisco, California</b>	<b>[January 2024 – May 2024]</b>
• Assisted in grading assignments and exams for graduate course CSC810 – Analysis of Algorithms in Computer Science Department at San Francisco State University.	
<b>Software Developer- <i>Flowjet Industries</i>, Ahmedabad-India (Python, Node.js, MongoDB)</b>	<b>[January 2023 – May 2023]</b>
• Orchestrated the backend development and database management of the company E-commerce portal using Django, Node.js and MongoDB. Built API endpoints for the website and reduced database latency by 45%.	
• Utilizing machine learning algorithms, a 30-day demand forecast for a product was generated. This forecast, which achieved approximately 70% accuracy on real-time seller data, can assist in choosing a location that can fulfill the order.	
<b>Software Development Intern– <i>JPAL South Asia</i>, New Delhi-India (React.js, Node.js, Snowflake)</b>	<b>[May 2022 – July 2022]</b>
• Developed and implemented a digital communications strategy for the organization's website, aligning with broader communications goals.	
• Accomplished a 30% increase in user engagement, as measured by website analytics, by developing and implementing a comprehensive digital communications strategy.	
• Achieved a 40% faster resolution time for user issues, as measured by support ticket data, by responding to user inquiries promptly and coordinating with external developers for complex troubleshooting.	

## PROJECTS

<b><u>Leetcode AI Assistant extension (JavaScript, Google Gemini LLM, Artificial Intelligence)</u></b>	<b>[September 2024]</b>
• Spearheaded the development of this google chrome extension to autofill pseudocode or further code contents of a specific leetcode problem utilizing Google Gemini API tokens and JavaScript.	
• This project featured the implementation of an AI-based extension to infer details of a Leetcode problem using web scraping and then utilizing Google Gemini’s LLM to provide auto suggestions according to the input code.	
<b><u>Edu Bridge: A Learning Management System (MySQL, Express, React.js, Node.js, Jira, AWS, Directus)</u></b>	<b>[May 2024]</b>
• Spearheaded the full stack development of a comprehensive Learning video streaming application, Edu Bridge, utilizing the MERN stack. This project mirrors Canvas' functionality, offering video uploading, sharing, and real-time streaming capabilities.	
• Orchestrated project workflow and task management using JIRA. Built a modern and responsive web design using HTML/CSS and React.js. Backend API endpoints and features using Node mailer and multer. Used Directus for Content Management.	
• Implemented MySQL database for efficient data storage, coupled with Express and Node.js for scalable backend services. Deployed using AWS EC2. Crafted an interactive front-end experience with React, optimized for performance and cross-browser compatibility.	
<b><u>SFO Passenger Traffic Visualization System (Next.js, D3.js, Node.js, PostgreSQL, Prisma)</u></b>	<b>[January 2024]</b>
• Developed and maintained a real-time data visualization platform to analyze passenger traffic at San Francisco International Airport (SFO), leveraging a dataset of 35.3k rows, resulting in a 25% increase in data processing efficiency.	
• Implemented interactive visualizations using D3.js on a Next.js web application, providing insights into peak travel periods, airline performance, and passenger behavior, which led to a 30% improvement in operational decision-making speed.	
• Integrated PostgreSQL for efficient data storage and retrieval, with backend services managed using Prisma and Node.js, reducing database latency by 40% and ensuring seamless and scalable data handling.	
<b><u>Innovest- Stock Visualization and Analysis (React.js, AlphaVantage API, Node.js, Redis)</u></b>	<b>[August 2023]</b>
• Built a stock visualization app using React.js, Three.js, Node.js, and D3.js, displaying real-time data for all NYSE and NASDAQ stocks.	
• Leveraged the Alpha Vantage API to fetch and process stock data, enabling analysis of over 2,800 stocks with 15% faster load times.	
• Visualized complex stock tickers in interactive 3D formats, improving data accessibility and user engagement by 40%.	

## TECHNICAL SKILLS

<b>Programming Languages:</b> JavaScript, Python, C/C++, Swift	<b>Database:</b> MySQL, Oracle DB, MongoDB, PostgreSQL, Redis,
<b>Frontend Technologies:</b> HTML, CSS, React.js, Next.js, Typescript.	<b>Backend Technologies:</b> Node.js, Express, GraphQL, Django
<b>Other Tools / Softwares:</b> AWS, JIRA, Postman, Docker, Git, Directus, Snowflake, Azure, Firebase	

## LEADERSHIP

<b>Vice Chair - <u>Computer society of India at Vellore Institute of Technology (CSI – VIT)</u></b>	<b>[August 2021-May 2022]</b>
<b>Technical Team Member – <u>Google Developers student Club at VIT</u></b>	<b>[December 2020-May 2022]</b>