

AMOL SRIVASTAVA

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PROFESSIONAL SUMMARY

Passionate Software Engineer with a strong foundation in computer science and hands-on experience in building and optimizing software solutions. I enjoy solving complex problems and take pride in delivering high-quality, efficient code. With a focus on both front-end and back-end development, I'm dedicated to creating scalable, user-friendly applications. Eager to bring my technical expertise and collaborative spirit to a dynamic engineering team.

EDUCATION

Bachelor of Science in Computer Science, Rutgers University-New Brunswick May 2025
Relevant Coursework: Data Structures and Algorithms, Software Methodology, Design and Analysis of Algorithms, Discrete Structures 1 & 2, Calculus 1 & 2, Database Systems Implementation, Linear Algebra, Linear Optimization, and Machine Learning

SKILLS

Languages	Python, Java, JavaScript, SQL, and C
Developer Tools	Git, Visual Studio Code, Jupyter Notebook, IntelliJ IDEA, Linux/Unix, AWS, and PostgreSQL
Libraries/Frameworks	React, ReactNative NodeJS, Express.js, Angular, and Natural Language Toolkit

EXPERIENCE

Connects Jan 2021 - Jan 2023
Software Engineer *New Brunswick, NJ*

- Utilized **React Native** and **AWS Amplify** to build and deploy Connects, ensuring a seamless UX
- Implemented real-time chat functionality using **Firebase** to facilitate immediate user communication
- Developed predictive algorithms to enhance roommate matching accuracy **80%** on 2900+ dummy accounts
- Garnered consecutive **Best Startup** awards at Rutgers University's RISE Competition in 2021 and 2022

JPMorgan Chase & Co May 2023 - Aug 2023
Software Engineering V.E. *Remote*

- Leveraged JP Morgan's **Perspective framework** to implement dynamic real-time financial data visualizations
- Enhanced **JavaScript** and **TypeScript** skills by fixing broken files to ensure accurate web functionality
- Designed and integrated automated testing frameworks with **Jest** and **Cypress**, enhancing software quality

PROJECTS

Premier League Game Winner Predictor with Machine Learning (*Python, Pandas, SKlearn, Matplotlib, Numpy*)

- Developed an **ML model** to predict premier league game winners using historical data, like team performance metrics
- Implemented a **Python**-based web scraper using requests to download data for **1500+** matches
- Utilized **BeautifulSoup** to effectively parse and sanitize data, achieving **95% accuracy** in extracting statistics

AI-Image Generator (*React, JavaScript, Node.js, Express.js*)

- Engineered an application enabling users to generate AI-driven images, leveraging **OpenAI's DALL-E 3 model**
- Designed a dynamic front-end interface using **React** and **JavaScript**, providing a smooth user experience
- Built a robust back-end server with **Node.js** and **Express.js**, efficiently handling API requests

Finance Dashboard (*React.js, Bootstrap, Node.js, MongoDB*)

- Developed a **React.js** and **Bootstrap**-based finance dashboard for family use, processing **1000+** transactions
- Enacted a secure **Node.js** and **Express.js** backend, reducing overspending risks through alerts by **15%**
- Successfully integrated **MongoDB** to ensure efficient and robust management of transaction and budget data

Crypto Price Tracker (*React.js, Node.js, Express.js, MongoDB, Chart.js, CoinGecko API*)

- Built a real-time cryptocurrency tracker using **React.js** and **Chart.js** for visualizing price trends for 10,000+ coins
- Integrated **CoinGecko API** for real-time data and used **MongoDB** for managing user watchlists
- Optimized backend with **Node.js** and **Express.js**, efficiently handling high traffic and ensuring low latency