Shivam K. Patel

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EDUCATION

Rutgers University-New Brunswick   **Piscataway, New Jersey**
B.S. in Computer Science and Data Science   *Expected Graduation, May 2026*
- o **Related Coursework:** Data Structures & Algorithms, Discrete Math I/II, Regression Methods, Internet Technology, Computer Architecture, Software Methodology, Statistical Learning, Design and Analysis of Algorithms
- o **Clubs and Activities:** Rutgers University Mobile App Development Club, Undergraduate Student Alliance of Computer Science, HackRU

EXPERIENCE

Glazer Capital   **New York City, New York**
Full Stack Intern   *March 2025 – May 2025*
- Developed a full-stack financial trading platform by architecting a React/MUl frontend with Django REST framework backend, resulting in real-time monitoring of merger arbitrage, SPAC, and convertible bond positions for portfolio managers.
- Engineered a real-time data processing pipeline that integrated Bloomberg and spreadsheet data sources by utilizing Django Channels WebSocket's for instant price updates, which reduced market risk by providing immediate visibility into position P&L and exposure.
- Designed and built customizable dashboard interfaces using Material React Table and TailwindCSS, enabling users to personalize views of portfolio data, which improved trading decision-making efficiency by 40% through focused data visualization.

Rutgers University   **New Brunswick, New Jersey**
Undergraduate Research Assistant   *May 2023 – Dec 2023*
- Leveraged statistical algorithms and iterative parameter optimization to implement a Python-based Conditional Associative Accuracy model for predicting memory recognition performance, improving data processing efficiency and research precision by 25%
- Performed comprehensive statistical analyses on data from 15+ behavioral experiments using Python (Pandas, NumPy, Linear Regression), R, and SQL, effectively identifying data trends, refining experimental protocols, and enhancing predictive accuracy by up to 40%.
- Designed and executed complex data modeling for untimed recognition tasks, implementing probabilistic source-memory models in Python and R to analyze confidence-level responses, significantly advancing the accuracy of psychological experiment outcomes and insights into human cognitive processes.

VadtalDham Temple   **Franklin Park, New Jersey**
Web Developer   *July 2023 – May 2024*
- Engineered a responsive web platform serving 10,000+ monthly users by implementing React.js, Node.js, and modern CSS frameworks, such as Tailwind CSS, resulting in a 40% improvement in mobile user engagement.
- Developed an automated event management system that reduced administrative workload by 50% by integrating Node.js backend services and RESTful APIs for real-time updates.
- Implemented a scalable content management solution that increased content update efficiency by 70% by utilizing modular React components and optimizing database queries with SQL.

PROJECTS

NBA Performance Analytics Platform   *September 2024 – November 2024*
- Developed an interactive NBA player performance prediction web app using Streamlit and Python, enabling users to generate real-time, data-driven insights for over 30 NBA teams and hundreds of players.
- Engineered and deployed advanced machine learning models (Random Forest, XGBoost, Neural Network) and Monte Carlo simulations, improving prediction accuracy for player points, rebounds, and assists by leveraging historical and opponent-specific data.
- Automated data retrieval and preprocessing pipelines using NBA API, Pandas, and concurrent programming, reducing data processing time by 50% and enhancing user experience with dynamic visualizations via Altair.

Data Structures and Algorithms Visualizer   *September 2022 – December 2022*
- Implemented an interactive Algorithm Visualization platform using React.js, Node.js, and RESTful APIs, enabling users to visualize and understand complex data structures and algorithms through dynamic animations and step-by-step execution.
- Developed a multi-language code editor interface supporting Java and Python, implementing real-time code compilation and execution functionality to provide a hands-on learning experience for 10+ fundamental algorithms and data structures.
- Architected a responsive web application with modular component design using modern React hooks and state management, resulting in a maintainable codebase with 40% improved code reusability and seamless user experience across different devices.

RiseApp   *August 2025– September 2025*
- Developed full-stack habit tracking mobile application using React Native, TypeScript, and Redux Toolkit, implementing a 25-step onboarding flow with interactive UI components and real-time progress tracking for 6+ habit categories (sleep, hydration, exercise, mindfulness)
- Architected a scalable backend system with Django REST Framework and SQLite database, designing 4 Django apps with 20+ API endpoints for user authentication, goal management, and data persistence, supporting both Supabase and local storage fallback mechanisms
- Implemented gamified user experience featuring RPG-style progression system (Bronze V to Legend I), dynamic task generation based on user goals, push notifications via OneSignal, and comprehensive state management with user-scoped data persistence across sessions

SKILLS

Programming: Java, Python, JavaScript, HTML, MATLAB, C++, C, Swift (iOS), Typescript, CSS, R
Frameworks and Libraries: React.js, Node.js, Django, Flask, TensorFlow, Scikit-Learn, Pandas, NumPy, D3.js, Bootstrap, Tailwind CSS
Database & Tools: PostgreSQL, SQLite, MongoDB, Git, GitHub, RESTful APIs, Docker, Jupyter Notebook, VS Code