Kevin Patel

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EDUCATION

University of Illinois Urbana-Champaign — Champaign, IL
Bachelor of Science in Computer Science and Economics — *August 2023 – May 2027*
- **Relevant Coursework:** Data Structures, Computer Architecture, Systems Programming, Algorithms and Models of Computation, Programming Languages and Compilers

EXPERIENCE

App Developer — January 2024 – December 2024
Fantasy Trading Room — *Champaign, IL*
- Worked on developing a mobile application for fftradingroom.com, a sports news and analysis site, using **React Native** to create a mobile application compatible with iOS
- Implemented real-time sports news updates, comprehensive fantasy draft guides, and user insights to enhance user engagement and experience
- Designed and developed a mock draft simulator feature, allowing users to practice drafting in a realistic fantasy sports environment by integrating real-time data feeds for accurate and up-to-date information
- Created an intuitive and engaging user interface following modern **UI/UX principles**. Conducted user testing to gather feedback and iteratively improved the app, enhancing user experience and satisfaction

Course Assistant — January 2024 – May 2024
University of Illinois Urbana-Champaign — *Champaign, IL*
- Tutored **50+ undergraduates** weekly in **Java, OOP, and data structures**; improved average scores by 15%
- Led eight weekly peer-driven Java study groups, coordinating hands-on coding drills and live practice exam demos that boosted session attendance by 30%
- Guided **120 students** through a Java OOP final project by offering debugging support and unit-testing best practices—achieving a 98% on-time submission rate and a 14% boost in average scores

PROJECTS

Project Management Dashboard | *Next.js, TypeScript, **AWS (EC2, RDS, Cognito, Amplify)*** — July 2025
- Developed a fullstack project management tool with Next.js frontend and **RESTful APIs** hosted on AWS EC2, enabling task tracking, team collaboration, and real-time updates.
- Designed and deployed secure AWS infrastructure with Amazon RDS (PostgreSQL), EC2 in a VPC (public/private subnets), Cognito for authentication, and Amplify for frontend hosting
- Integrated **Amazon S3** for file storage and **API Gateway** for secure backend communication, ensuring high availability, scalability, and security across cloud services

StockPro | *React, Django, JavaScript* — May 2025
- Engineered a dynamic web application utilizing **machine learning** algorithms and historical market data to predict stock trends with **80% accuracy**, enabling data-driven investment decisions
- Architected a scalable backend infrastructure with **Django**, optimizing data preprocessing, feature extraction, and seamless integration with multiple real-time financial data APIs to enhance forecasting reliability.
- Designed and implemented an interactive, responsive frontend with **React** (JSX), delivering real-time trend analysis, predictive insights, and data visualizations through dynamic charts, ensuring an engaging user experience.

National Football League Match Predictor | *Python, Pandas, scikit-learn* — October 2024
- Scripted data preprocessing and feature engineering on historical NFL data using pandas for modeling datasets
- Developed and trained a RandomForestClassifier with scikit-learn to predict match outcomes, optimizing model parameters for improved accuracy
- Evaluated model performance using accuracy and precision metrics, achieving reliable predictions of game winners

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript/TypeScript, SQL, HTML/CSS, R
Frameworks: Flask, React Native, Node.js, React, Django
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, WebStorm
Libraries: pandas, NumPy, Matplotlib, Express.js, Tailwind CSS, PyTorch, scikit-learn