Pranav Kiran Kolhe

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EDUCATION

University of Southern California   **Los Angeles, California**
Master of Science in Computer Science   January 2024 – December 2025
Coursework: Analysis of Algorithm, Database Systems, Information Retrieval, Data Science and Machine Learning

NMIMS University   **Mumbai, India**
Bachelor of Technology, Computer Engineering (Data Analytics Honors)   July 2019 – May 2023
Coursework: Web Development, Machine Learning, Deep Learning, AI, Data Structures, Software Engineering

SKILLS

- **Programming Languages**: Python, JavaScript, TypeScript, HTML, CSS, C#, R, Java, SQL
- **Frameworks & Libraries:** React, Next.js, Node.js, Express, Flask, Bootstrap, Tailwind
- **Databases:** MongoDB, MySQL, Supabase, PostgreSQL
- **Cloud & DevOps:** GCP, AWS, GitHub Actions
- **Tools:** Power BI, Tableau, DAX, Google Analytics, Excel, Unity, Jira, Git

WORK EXPERIENCE

Appraise AI   **Los Angeles, California**
Lead Software Engineer Intern   May 2025 – August 2025
- Developed an **end-to-end interactive property map feature** using **Next.js, React, TypeScript and Supabase**, enabling parcel overlays and real time synchronization between visible parcels and property listings for 100k+ properties.
- Engineered **full-stack appointment scheduling system** using **Node.js, Next.js, TypeScript, Google Calendar API and Mailjet,** to handle all client bookings, calendar invites (with RSVP), and branded notifications.
- Utilized automated **CI/CD pipelines with GitHub and Vercel** to ensure seamless deployment, preview environments, and continuous integration for all web application features.

Software Engineer Intern   March 2025 – May 2025
- Built **backend system** for company's AI appraisal engine using **Node.js, TypeScript, AWS S3, and Supabase,** reducing report generation time by over 99% (8 hours to 7 seconds).
- Automated **scraping** of 100k+ property records using **Python (Playwright, Selenium)**, storing structured datasets in **Supabase** and large assets in **AWS S3** for real-time use.

Techspeak Technologies LLP   **Jaipur, Rajasthan**
Research and Development Intern   May 2022 – July 2022
- Conducted in-depth **technical research and comparative analysis** of video streaming protocols, recommending improvements to **reduce bandwidth and operational costs by up to 30%.**
- Proposed **new feature**, performed **foundational research**, and collaborated with the technical team to define **technical requirements**, aligning software architecture with business objectives.

PROJECTS

Weather Application | *React, Node.js, MongoDB, Express, Google Cloud Platform (GCP).*
- Developed **full-stack web app** integrating Tomorrow.io and Google Maps API to deliver real-time weather.
- Designed **RESTful APIs with full CRUD** for user favorites and deployed on **GCP** for scalability.

Fantasy Premier League (FPL) Simulator Application | *Next.js, Node.js, Supabase, TypeScript, React*
- Engineered **full-stack web application** simulating FPL team performance across all 38 game weeks, allowing users to input 8 squads, simulate outcomes, and visualize point trends.
- Built **backend recommendation system** to suggest higher-scoring alternative FPL players by position and price range, supporting strategic team planning with data-driven insights.

Gravity Climb (2D Platformer) | *Unity, C#, Project Management, Real-Time Analytics*
- Implemented **modular C# scripts** for core gameplay systems including player mechanics, state transitions, and event handling, improving performance and maintainability.
- Deployed **real-time gameplay analytics pipelines** to track player behavior across 10 testing sessions with 50+ players, enabling data-driven decisions for difficulty balancing, feature tuning, and bug resolution.