KUNAL RAJPUT

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WORK EXPERIENCE

Persistent Systems   **Pune, India**
Software Developer   June 2022 – July 2023
- Led a cross-functional team of **6** to develop and design a textile process automation software combining React, MongoDB, Express.js, Python and REST API for CRUD operations, attaining **60%** reduction in operational costs for client.
- Optimized over **15** critical operations, including inventory management, product scheduling, and cost analysis, via extensive data analysis with Power BI and numerical computations operating Pandas, gaining **42%** increased efficiency.

Persistent Systems   **Pune, India**
Software Developer Intern   January 2022 – June 2022
- Engineered a Workforce Management Platform for **33,000** employees utilizing Django for server-side logic and RESTful API, Vue.js for interactive user interfaces, MySQL for database management, JavaScript and Sass for responsive styling.
- Streamlined over **10** core functionalities, such as authentication, onboarding, employee records and attendance tracking.
- Strategized with an Agile team of **9** developers, managing continuous integration and delivery (CI/CD) pipelines for efficient deployment, sprint planning, version control, stand-ups, and collaborative coding through active GitHub usage.

Wolfizer Technologies   **Nashik, India**
Web Developer Intern   June 2021 – December 2021
- Built and redeveloped official company website, leveraging JavaScript, React, Tailwind CSS and Framer Motion library.
- Generated a **60%** increase in user engagement and interaction, succeeding completion **2** months ahead of schedule.
- Secured **24%** reduction in post-launch issues while accomplishing best SEO practices, resulting a **10%** gain in site traffic.

EDUCATION

Illinois Institute of Technology   **Chicago, IL**
Master's Degree, Computer Science   August 2023 – May 2025
Relevant Courses: Cloud Computing, Machine Learning, Natural Language Processing, Mobile App Development

Pune University   **Pune, India**
Bachelor of Engineering, Computer Engineering   August 2018 – July 2022
Relevant Courses: Data Structures and Algorithms, OOP, Relational Database Systems, System Programming, and OS

PROJECTS

Kiri AI – A Smart Voice Assistant   *NLP, Flutter, Dart, C++, Transformers, Sentiment Analysis*
- Programmed Kiri AI for Android/iOS devices, using Dart, Flutter, natural language processing and speech recognition.
- Integrated Google Cloud NLP API for sentiment analysis, employing BERT transformer model to classify user emotions from speech-converted text, and implemented decision-making algorithms for emotion-based response generation.
- Enhanced OpenAI API for text responses and on-demand image generation, resulting in a **40%** boost in user engagement.

Wave – Video Conferencing (Try here)   *Next.js, Clerk Auth, Tailwind CSS, shadcn/ui, Stream SDK*
- Innovated a Next.js-based video conferencing app, combining Clerk Authentication for **600** monthly active users, and utilizing Tailwind CSS and shadcn/ui components for responsive design and styling.
- Synthesized Stream SDK for video, audio, and screen share functionalities, applying custom hooks for managing browser permissions and fetching call details, and deployed on Vercel for robust, real-time video streaming and high reliability.

Disease Prediction and Medical Recommendation System   *Random Forest, Gradient Boosting, Flask, CSS, HTML*
- Designed and developed a disease prediction app utilizing Random Forest model trained on extensive medical datasets.
- Performed hyperparameter tuning and cross-validation, building a robust web platform with the Flask microframework.

Stock Price Prediction Model   *LSTM, TensorFlow, Keras, RMSE, Time Series Model*
- Constructed a TensorFlow Keras model with LSTM, achieving **96%** prediction accuracy by pre-processing historical data.
- Fine-tuned with Adam optimizer, performed RMSE validation and visually demonstrated results through plots and graph.

SKILLS

- **Languages:** Java, C#, C, C++, JavaScript, Golang, Python, PHP, Swift, Dart, TypeScript
- **Web Technologies:** Next.js, React.js, Redux, Node.js, .NET, Django, Angular, CSS, HTML, CSS, RESTful API
- **AI/ML Technologies:** LLM, Scikit-Learn, NumPy, Pandas, PyTorch, TensorFlow, Neural Networks, NLP
- **Additional Skills:** Spring Boot, Kafka, AWS, Hadoop, Spark, Big Data, jQuery, MySQL, MongoDB, Firebase, Git, Agile