Mujtaba Chaudhry

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Education

Ontario Tech University — Oshawa, On
Bachelor of Science in Computer Science — *Expected May 2026*

Projects

Doctor Connect | GitHub | Website | *(JavaScript, React, HTML/CSS, MongoDB, Node.js, Selenium)*

- Developed a robust doctor lookup site using the MERN stack, connecting and serving a vast network of over 1,000 doctors, streamlining the process of finding healthcare professionals for patients in need.
- Implemented Selenium for highly efficient web scraping and streamlined data assimilation from external sources, resulting in a 50% reduction in data collection time and enabling real-time data-driven decision making.
- Streamlined the interface by integrating the Google Maps API, allowing users to visualize doctor locations on an interactive map interface, resulting in a 30% decrease in user drop-off rates and a 20% increase in user engagement.
- Prepared a secure user authentication system, bolstered by Node Passport, to ensure confidential access.

IntelliChat | GitHub | Website | *(JavaScript, React, AI, NLP, Node.js, HTML/CSS)*

- Conceived the Intelli Chat Generator, utilizing cutting-edge Artificial intelligence (AI) to create a transformative language learning tool. Orchestrated a immersive chat interactions with an advanced AI bot, supporting proficiency in 15+ languages and elevating the learning experience.
- Spearheaded the seamless integration of Node.js and Python into the backend, optimizing system efficiency and enabling advanced functionalities; achieved a 25% reduction in API response time and enhanced user experience.
- Pioneered the integration of advanced Natural Language Processing (NLP) techniques, revolutionizing chat interactions to deliver intelligent and context-aware learning experiences. Secured a 40% increase in user engagement and doubled knowledge retention.

Rubik's Cube Solver | GitHub | *(Python, OpenCV, Computer Vision, Git)*

- Created an advanced Rubik's Cube solver using computer vision and the Kociemba algorithm for efficient solving in under 2 seconds.
- Optimized a robust color detection system to enhance sticker identification and mapping accuracy; Obtained a 40% reduction in mapping errors and improved system efficiency by 25%.
- Led the creation of an innovative OpenCV-powered interface that offered real-time visual feedback for enhanced Rubik's Cube scanning; presented solutions in visually and textually guided formats, facilitating a seamless and user-friendly solving experience.

Nba Lineup Analysis | GitHub | Website | *(JavaScript, HTML/CSS, Matplotlib, Streamlit, Pandas, Git)*

- Launched and executed an NBA Lineup Analysis Tool leveraging Streamlit; facilitated comprehensive analysis with intuitive visualizations, resulting in a 75% increase in Fantasy performance and data-driven strategic decision-making.
- Conceptualized pandas for efficient data management and manipulation, enhancing the tool's capabilities for exploring player and team statistics.
- Conducted comprehensive lineup analysis by analyzing team stats, efficiency metrics, and advanced player data, uncovering impactful patterns that influenced strategic decisions and game planning.

Experience

Tutor — June 2022 – Present
Economical Tutoring Services — *Toronto, ON*

- Supervised targeted tutoring in Computer Science, Math, and Science to grade 12 and below students, tailoring sessions to individual learning needs.
- Employed engaging teaching methods to simplify complex concepts, and boosting academic performance.

Technical Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL
Frameworks: React, Node.js, Express.js, Flask, Bootstrap, WordPress, Material-UI, FastAPI
Developer Tools: Git, Docker, MongoDB, Google Cloud Platform, Firebase, VS Code, Jupyter, Figma, Linux
Libraries: Pandas, NumPy, Matplotlib, OpenCV, STL, Selenium, Bcrypt