Kuldeep Singh

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EDUCATION

University of Illinois at Chicago (UIC) — **Chicago, IL, US**
Master of Science in Computer Science — *May 2023*
- GPA: 3.56, Relevant Coursework: Visual Data Science, Artificial Intelligence, Database Systems, Mobile app Development.

Vellore Institute of Technology (VIT) — **Vellore, TN, IN**
Bachelor of Technology in Computer Science — *May 2021*
- GPA: 7.49, Relevant Activities: CS-Lab Aid, Gravitas Management Team, Runner up at DSC VIT Hackathon 2019.

RELEVANT EXPERIENCE

Humourbaba Pvt. Ltd. — **Bangalore, TN, IN**
Software Development Intern — *Dec 2019 - Jan 2021*
- Developed and maintained a web application using the MERN stack (MongoDB, Express.js, React.js, Node.js), resulting in a 50% increase in user engagement and a 30% increase in customer satisfaction.
- Led the development of backend functionalities using Node.js, AWS Lambda triggers & AWS API Gateway to streamline operations and automate processes, saving 20% in team productivity.
- Implemented user authentication and authorization using JSON Web Tokens (JWT) and Passport.js, ensuring secure access to the application.
- Designed and developed RESTful APIs using Express.js, enabling seamless communication between the frontend and backend.

Pactiv Evergreen Inc. — **Lake Forest, IL, US**
Data Science Intern — *Jun 2022 - Aug 2022*
- Created a comprehensive Data Governance Dashboard using Tableau to support the organization in aligning people, processes, and technology, providing crucial insights into data quality, data ownership, and data management.
- Conducted predictive data analysis on resource management and product output to optimize the labor model at each site, resulting in a significant reduction (~50%) in the need for workforce adjustment, thus increasing operational efficiency and cost-effectiveness.
- Collaborated with cross-functional teams to identify and implement data-driven solutions to business problems, resulting in a 20% increase in productivity and a 10% reduction in costs.

University of Illinois at Chicago (UIC) — **Chicago, IL, US**
Graduate Assistant — *Aug 2022 – May 2023*
- Maintained and updated the HPC system for the Dept. of Physics, facilitating high-performance computing for research projects.
- Provided hardware and software support to over 500 PCs, printers, and servers across four buildings, ensuring smooth and uninterrupted services to end-users.
- Assisted in the development and maintenance of the department's website, ensuring that it was up-to-date and user-friendly.

PROJECTS

Cardiovascular Disease Visualization (Team project under in collaboration w/ domain expert client) — *Dec 2022*
- Created an Interactive dashboard with patient data from Columbian Hospitals that allows the users to explore the different trends in the bloodwork's, risk factors and medical history of patients suffering from cardiovascular diseases.
- Project Demo: https://youtu.be/houEX_9WpvQ , Tools : D3, JavaScript, Html, CSS, Observable, Jupyter, Pandas.

React-Portfolio-Website — *May 2023*
- Developed a responsive portfolio website using ReactJS and SwiperJS, featuring a modern and user-friendly design. Implemented emailJS to enable users to send messages directly from the website and utilized Node.js for server-side functionality.

Early-Stage Diabetes Prediction using Machine Learning — *May 2021*
- Built a machine learning prediction model in Python using libraries such as Sci-kit-learn, NumPy, Pandas, Matplotlib, Seaborn, Pickle, Tkinter, and PDPbox.
- Trained and tested the dataset using machine learning models such as Random Forest, Naive Bayes, Decision tree, SVM, and KNN.
- Analyzed correlations between different attributes using Pearson's Correlation Coefficient.

SKILLS & INTERESTS

Programming Languages: Python, JavaScript, Java, R, SQL, TypeScript, C++

Web-Technologies: React, PHP, CSS3, HTML5, Django, MongoDB, RESTful APIs, D3.js, Three.js, jQuery, AWS Lambda, GraphQL

Software/Frameworks: Tableau, MySQL, Angular.js, Git, Automation Anywhere, Node.js, Jupyter Notebook, Docker, Adobe(Illustrator, Photoshop and XD), Figma,