

# Kuldeep Singh

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## EDUCATION

### University of Illinois at Chicago (UIC)

Master of Science in Computer Science

Chicago, IL, US

May 2023

- GPA: 3.56, Relevant Coursework: Visual Data Science, Artificial Intelligence, Database Systems, Mobile app Development.

### Vellore Institute of Technology (VIT)

Bachelor of Technology in Computer Science

Vellore, TN, IN

May 2021

- GPA: 7.49, Relevant Activities: CS-Lab Aid, Gravitas Management Team, Runner up at DSC VIT Hackathon 2019.

## RELEVANT EXPERIENCE

### University of Illinois at Chicago (UIC)

Graduate Assistant

Chicago, IL, US

Aug 2022 – May 2023

- Built web applications for the College of Engineering, utilizing technologies such as Django (Python), React.js, and PostgreSQL.
- Implemented advanced security measures, enhancing overall system security by 80% through the integration of Two-Factor Authentication (2FA) and encrypted data storage.
- Successfully deployed the application across 10 departments, resulting in a significant 75% reduction in paperwork and streamlining employee review processes.

### Pactiv Evergreen Inc.

Data Science Intern

Lake Forest, IL, US

Jun 2022 - Aug 2022

- Created a comprehensive Data Governance Dashboard using Tableau and MySQL 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.

### Humourbaba Pvt. Ltd.

Software Development Intern

Bangalore, TN, IN

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.

## PROJECTS

### [Job Application Tracker Chrome Extension](#)

July 2023

- Developed the Job Application Tracker Extension to help job seekers stay organized and manage job applications efficiently.
- Created an intuitive popup interface to keep users updated with the status of their last five job applications on supported websites.
- Implemented a comprehensive application history feature, allowing users to download their application data as a CSV file for analysis and improvement.

### [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.

### [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](https://youtu.be/houEX_9WpvQ), Tools : D3, JavaScript, Html, CSS, Observable, Jupyter, Pandas.

## 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), and Figma etc.