KULDEEP SINGH

+17735750690 | kponia05@gmail.com | https://www.linkedin.com/in/ku1deep-5ingh/

https://github.com/Ar5en1c | https://ar5en1c.github.io/react-portfolio/

EDUCATION

University of Illinois - Chicago   **August 2021 - May 2023**
Master's, Computer Science   *GPA: 3.56*
- **Relevant Courses:** Visual Data Science, Artificial Intelligence , Database Systems, Mobile app Development etc.

Vellore Institute of Technology   **July 2017 - May 2021**
Bachelor's, Computer Science   *GPA: 7.49*
- **Relevant Courses:** Networks and Communication, Cryptography, DBMS, Web Design, Internet of Things etc.

PROFESSIONAL EXPERIENCE

University of Illinois - Chicago   **Chicago, IL, USA**
Graduate Assistant   *August 2022 - May 2023*
- Developed a Django and React.js-based web application, streamlining departmental processes and reducing paperwork by 75%.
- Enhanced system security by integrating Two-Factor Authentication (2FA) and advanced encryption, leading to an 80% reduction in vulnerabilities.
- Played a key role in deploying efficient applications, contributing to a 75% increase in processing speed and operational efficiency.

Pactiv Evergreen Inc.   **Chicago, IL, USA**
Data Science Intern   *June 2022 - August 2022*
- Pioneered a Tableau-based data governance dashboard, leveraging a MySQL database, to achieve a 10% cost reduction in software license management.
- Developed predictive models in Python for workforce optimization, reducing staffing adjustments by 50%.
- Collaborated with business units to analyze data, leading to a 20% increase in productivity through informed strategic decision-making.

Humourbaba Pvt. Ltd.   **Vellore, Tamil Nadu, India**
Software Development Intern   *December 2019 - January 2021*
- Enhanced web application performance by 50% and user satisfaction by 30%, utilizing MERN stack technologies for development.
- Automated key workflows and improved API efficiency by 20% using Node.js and AWS Lambda.
- Bolstered application security by integrating JWT and Passport.js for robust user authentication and authorization protocols.

PROJECTS & OUTSIDE EXPERIENCE

Job Application Tracker   **Chicago, IL, USA**
Founder/Creator   *May 2023 - Present*
- Transformed the extension by integrating React.js 18 and Webpack 5, enhancing UI/UX with responsive React components and hooks
- Developed Node.js Lambda functions for secure data processing with DynamoDB, and established robust permission models
- Implemented an AWS API Gateway to facilitate reliable data transfer between the extension and serverless backend
- Pioneered a new feature providing users with fresh job opportunities, uniquely filtered based on their application history
- Enhanced user privacy with a consent-based data usage system, aligning with best practices in data security and compliance
- Significantly increased user engagement by offering a seamless, intuitive interface and streamlined application tracking

React-Portfolio-Website   **Chicago, IL, USA**
Full Stack Developer   *March 2023 - May 2023*
- Designed and developed a dynamic, responsive personal portfolio website using React v18, featuring SwiperJS for a modern UI/UX.
- Incorporated EmailJS for direct messaging capabilities, boosting user engagement and interactivity.
- Achieved a fluid and responsive user experience with an emphasis on mobile compatibility and intuitive navigation.

Cardiovascular Disease Visualization   **Chicago, IL, USA**
Data Scientist   *September 2022 - December 2022*
- Collaborated with medical professionals to develop an interactive dashboard visualizing patient cardiovascular data
- Performed comprehensive data analysis using Python libraries (numpy, pandas, seaborn) to derive actionable insights
- Contributed to patient care enhancement by providing a data-driven approach for analyzing cardiovascular trends
- Demonstration accessible at https://youtu.be/houEX_9WpvQ. Tech stack including D3, JavaScript, HTML5, CSS3, Python, etc.

SKILLS

Skills: Node.js, Agile, AWS, Data Analysis, Data Science, Data Structures & Algorithms, Django, Docker, Figma, GraphQL, JavaScript, Business Analytics, Git, HTML/CSS, Java, MongoDB, MySQL, NumPy, React.js, REST APIs, Tableau, Python, TypeScript, UI/UX Design, Web Development, SEO, Express.js, Software Testing, TCP/IP