Jivan Singh

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EDUCATION

Illinois Institute of Technology | Chicago, IL, United States   *Present*
Master of Science in Computer Science

University of Mumbai | Mumbai, India   *May 2023*
Bachelor of Computer Engineering   *GPA*: 3.8/ 4.0

PROFESSIONAL EXPERIENCE

Software Developer | *Crayon Infotech Pvt Ltd., India*   *Aug 2023 – Jul 2024*
Tech Stack: PHP | CodeIgniter | Laravel | Python | Git | Algorithms | PostgreSQL | SQL/NOSQL | Flask API | Data Structures
- Designed scalable **software solutions**, improving **performance** by 30% and reducing **downtime** by 15%.
- Integrated user-friendly **APIs** and third-party services to **enhance functionality** and **user experience**.
- Collaborated with **cross-functional teams**, deploying and maintaining **5+ applications** while enhancing code quality and implementing continuous **integration** practices, which led to a reduction in bugs.

Blockchain Research Intern | *Lab Systems Pvt. Ltd., India*   *Jul 2022 – Feb 2023*
Tech Stack: Blockchain Architecture | Blockchain Node | Hashing | Solidity | Smart Contracts | Ganache | IPFS
- Gained in-depth expertise in cryptocurrency forensics using advanced **OSINT** techniques, successfully trained a team of **15 professionals**, and set up a Bitcoin node, leading to the development of a comprehensive one-stop **forensic solution**.
- Developed **management** and **teaching** skills by training individuals from various domains, including sales and development.

Cloud Intern | *Amazon Web Services (SLRTCE), India*   *Jun 2022 – Jul 2022*
Tech Stack: Cloud Computing Services | Cloud Platforms | Monitoring | Cost Management
- Completed an intensive AWS Cloud Services internship, focusing on **deploying** and **managing** secure cloud solutions.
- The program concluded with a project showcasing my skills in **cloud architecture** and **security** best practices.

Python Intern | *Jeet Techno Solutions LLP, India*   *May 2019 – Jun 2019*
Tech Stack: Python | Tkinter | IDLE | NumPy | Pandas
- Started as a Python intern, where I learned to write clean, **modular code** and assisted in **automating** routine tasks.
- Gained foundational experience in using Python for data **manipulation**, **script development**, and problem-solving on various small-scale projects under the guidance of senior developers.

RELEVANT ACADEMIC PROJECTS

Medilog, A Blockchain Based Pharmaceutical Supply Chain System   *Sep 2022 – May 2023*
- Employed a **blockchain** based, end to end, pharmaceutical supply chain solution where prescription drugs can be traced right from the manufacturer through the pharmacies and to the end consumer patient using **MERN stack**.
- Implemented **smart contracts** to automate transactions and ensure tamper-proof record-keeping, enhancing **security** and **integrity** throughout the supply chain.

Pulse Detection through webcam   *Aug 2021 – May 2022*
- Implemented a **Python application** with a user-friendly Tkinter interface, implementing **advanced algorithms** such as Laplace Pyramid, K-Nearest Neighbour, and Fast Fourier Transform, achieving an accuracy with an **R^2** score of **0.9**.
- This project demonstrated my skills in **GUI development** and **analytical** problem-solving.

Graphical Password Representation using Blockchain   *Mar 2023*
- Constructed a graphical blockchain solution that replaces traditional passwords using **smart contracts** and **IPFS** integration.
- The solution enhances user **authentication** by **decentralizing** data storage, providing greater **security** and **privacy**.

SKILLS AND CERTIFICATIONS

Professional certifications: AWS Academy Cloud Foundations, Walmart USA: Advanced Software Engineering,

Programming Languages: Python, SQL/NoSQL, Java, Java Script, PHP, C/C++, Solidity, HTML, CSS,

Framework & Libraries: Pandas, NumPy, Django, SQLite, CodeIgniter, Laravel, ReactJS/NextJS, MongoDB, PostgreSQL,

IDE & Development Tools: VS Code, AWS, MongoDB, Hadoop, GCP, Azure, Git/GitHub, MS Office, JIRA, Android Studio

Relevant Coursework: Competitive Programming, Data Structures & Algorithms, Object-Oriented Programming (OOP), Blockchain Architecture, Machine Learning, Operating Systems, Artificial Intelligence, Big Data, Relational Databases,

PUBLICATIONS

- Published a survey paper in IJSRD: Construction Estimation Project.
- Published a paper in IJRAR: Pulse Detection Through Webcam.

PATENT

- D Ein Blockchain-basiertes Medizinlogistiksystem – (Granted), German Patent File No - 20 2023 102 823.3, Date – 19 September 2023: Patent Link.