Jivan Singh

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EDUCATION

Illinois Institute of Technology | Chicago, IL, United States   *Aug 2024 – May 2026*
Master of Science in Computer Science

University of Mumbai | Mumbai, India   *Jun 2020 – 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%.
- Developed **APIs** to integrate with **third-party services**, **enhancing functionality** and improving the **user experience**.
- Collaborated with **multidisciplinary** teams to deploy and maintain over **5+ applications**, continuously improving the **codebase** by adhering to best practices, resulting in more **stable applications and fewer bugs**.

Blockchain Research Intern | *Lab Systems Pvt. Ltd., India*   *Jul 2022 – Feb 2023*
Tech Stack: Solution Design | Blockchain Architecture | Blockchain Node | Solidity | Ganache | IPFS
- Used advanced **OSINT** techniques to research cryptocurrency forensics, developing a comprehensive one-stop forensic solution. After conducting the research, trained a team of **professionals** to implement and manage the solution **effectively**.
- Set up a **Bitcoin node** and honed **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: Operating Systems | CloudFront | Amplify | IAM | WAF | EC2 | CI/CD Pipeline | Lambda | S3 | RDS | DynamoDB
- Completed an intensive AWS Cloud Services internship, focusing on **deploying** and **managing** secure cloud solutions.
- The program concluded with a project showcasing the hosting of web applications on **cloud architecture**, with **security** managed through **IAM** and other best practices.

RELEVANT ACADEMIC PROJECTS

Medilog, A Blockchain Based Pharmaceutical Supply Chain System   *Sep 2022 – May 2023*
- Employed a **blockchain**-based **MERN stack** application to provide an end-to-end pharmaceutical **supply chain solution**, allowing prescribed drugs to be traced from the manufacturer through pharmacies to the end consumers and patients
- Implemented **smart contracts** to automate transactions and ensure tamper-proof record-keeping, enhancing **security** and **integrity** throughout the supply chain.

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**.

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 **R²** score of **0.9**.

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, SASS, XML, ALP

Framework & Libraries: Pandas, NumPy, 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 on "Construction Estimation Project" in International Journal for Scientific Research and Development (IJSRD) Paper-link (Impact Factor Volume:8.1).
- Published a paper on "Pulse Detection Through Webcam" in International Journal of Research and Analytical Reviews (IJRAR) Paper-link (Impact Factor Volume:9.1).

PATENT

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