

# Harshdeep Bedi

Blockchain Software Developer – Protocol Engineering, Cryptographic & Database System

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## SKILLS

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- **Programming Languages:** JavaScript, Java, Solidity, PHP, Python, Apache Struts, C#, Kotlin, Unix Shell.
- **Cloud & IDE/Tools:** AWS, Microsoft Azure Cloud, Oracle Cloud Infrastructure, SSL, Postman & WinSCP.
- **Libraries & Frameworks:** React, Vue, Angular, React Native, Express.js, Web3.js, Ethereum and Hardhat.
- **Web Development:** HTML5, CSS3, Tailwind CSS, CSS, Bootstrap. Deployed Ethereum contracts by solidity.
- **Database Management:** SQL, T-SQL, MySQL, MS-SQL, PostgreSQL, MongoDB & ACID-compliant index.

## WORK EXPERIENCE

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### Blockchain Software Developer

October 2023 – May 2025

*VeriDID Corp*

*Toronto*

- Directed the development of decentralized identity verification applications using Solidity, Node.js, and React, implementing ERC-20 standards to manage token flows across over the five diverse of the business ecosystems.
- Optimized data retrieval efficiency by 40% through the strategic implementation of complex MongoDB Aggregation Pipelines in distributed blockchain storage environments, and resulting in faster transaction processing.
- Integrated EVM-compatible with wallet APIs, enhance integration, and reduce the transaction failures by 25%.

### Java Developer

September 2022 – May 2023

*Humber College*

*Toronto*

- Developed and maintained Spring-based RESTful APIs to streamline academic data flows, improve course registration efficiency & grading automation by 50% across integrated modules, thereby enhance faculty experience.
- Managed relational and NoSQL databases with indexing and normalization techniques, reducing query time by 45% and enhancing data consistency across MySQL and MongoDB, leading to more reliable and faster the data.
- Automated deployments using Docker & AWS EC2, achieving 99.9% uptime and reduce network time by 60%.

### Front-End Web Developer

June 2022 – August 2022

*CIBC Bank*

*Toronto*

- Programmed across a responsive interfaces using the React and Vue frameworks, increasing customer session durations by 38% and improving the accessibility on mobile platform areas, results in higher user engagement.
- Implemented third-party APIs to deliver real-time financial visualizations with enhanced accuracy, reducing the data latency by 40% and improving dashboard load speed across devices, thereby enhancing user experience.
- Modularized 15+ TypeScript and SCSS components, boosting scalability and cutting code duplication by 40%.

## PROJECTS

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### Full Stack Digital Wallet for Token Storage and Transaction

*Blockchain Developer*

- Designed and established secure token storage, transaction validation, and peer-to-peer asset transfer for over 1,000 users, using cryptographic protocols to ensure end-to-end data by 99%, delivering a seamless user need.
- Monitored integrated Ethereum blockchain protocols, optimizing gas consumption by 25% and enabling asynchronous transaction processing the workflows, which leads in measures which enhance overall system scalability.

### Web Development Project – Academic Course Portal

*Web Developer*

- Developed revamped responsive UI/UX using React and CSS Grid, improving accessibility by 40%, & enhanced backend API with Node.js to support a secure authentication, data consistency, and efficient load mechanisms.
- Implemented performance tuning strategies including code splitting, lazy loading, & the caching techniques, collaborated with teams to reduced the page load times by 30% across the device platforms for a user experience.

## EDUCATION

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### Postgraduate in Blockchain Development

*George Brown College, Ontario.*

September 2022 – August 2023

**CGPA: 3.8/4.0**

### Advanced Diploma in Computer Science

*Humber Institute of Technology and Advanced Learning, Ontario.*

September 2022 – August 2023

**CGPA: 2.8/4.0**

## CERTIFICATIONS

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- Splunk, CyberSecurity & Data Analytics Certification
- AI Audit Internship & IT Auditing and GRC Certification
- Multi-Cloud: AWS, Azure, GCP Certificate of Completion
- 30 Days AI Learning Challenge 30-30-30 Certification