

Akshay Sharma

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EXPERIENCE

- Junior Software Developer** | *Laivly* May 2023 - Mar 2025
TypeScript, Vue, C#, Java, ASP.NET, SQL, Jenkins, Argo CD, Sonarcloud, Playwright
- Implemented UI and micro services for the configuration studio of a customer service automation platform.
 - Improved security and feature roll-outs by configuring role-based authorization, CORS, and user management using keycloak.
 - Enhanced UX and achieved load time improvement of up to 85% by reducing fetch time complexities and adding lazy loading.
 - Ensured dependable releases and minimized QA turnarounds by engineering test suites with over 80% coverage.
 - Contributed to bug triaging, feature planning, release management to ensure a reliable deployment cycle.
- Research Assistant** | *University Of Manitoba* May. 2022 - Aug 2022
C++, LaTeX
- Researched flood risk analysis with GADA (Geometric, Approximation, and Distributed Algorithms) Lab, applying approximation techniques to analyze uncertain terrains.
- Software Developer Intern** | *Norima Consulting Inc.* Jan. 2022 - Apr. 2022
React, C++, OpenGL, C#, ASP.NET
- Authored an OpenGL/C++ script that renders 3D printable mouth-guard molds from the 3D scan of a patient's Jaw.
 - Engineered cloud-based solutions enabling use of GPU intensive applications on lightweight web interfaces.
- Software Developer Intern** | *Norima Consulting Inc.* May 2021 - Aug. 2021
React, React Native, TypeScript, GraphQL, Hasura
- Implemented asynchronous data management policies between clients enabling collaboration in areas without cell coverage.
- Junior Developer Intern** | *Value Partners Investments Inc.* Sep. 2020 - Dec. 2020
C#, Python, ASP.NET, Keras
- Developed and optimized APIs and function apps using C# and Azure Cloud Services to automate advisor operations.
 - Researched and trained a bi-layer LSTM model using transfer learning in Keras to perform time-series analysis on investment portfolios for growth prediction with an RMSE value of 0.0825.
- Jr. Machine Learning Engineer Intern** | *Laivly* Jan. 2020 - Apr. 2020
Python, Azure, Keras, Flask
- Created an API enabling customer service agents to interject in AI chatbot conversations allowing the bot to resume with complete context while improving its previous execution speeds by over 60%.

TECHNICAL SKILLS

- **Languages:** JavaScript/TypeScript, C#, Python, Java, C++, SQL
- **Tools and Frameworks:** React, Vue, Node.js, ASP.NET, Docker, Kubernetes
- **Databases & Libraries:** Postgres, MongoDB, GraphQL, pandas, NumPy, Keras, OpenGL
- **Devops & CI/CD:** Jenkins, Argo CD, Git

PROJECTS

- BisonCoin** | *Python, JavaScript, Vue, Docker, Nginx*
- Developed a blockchain-based cryptocurrency enabling secure transactions using public key cryptography.
 - Implemented asynchronous coin mining in clients using python threads and socket connections.
- Crick-meme** | *Java, SpringBoot, Kafka, SpringAI, MongoDB*
- Implemented a Java based application using Kafka and SpringAI that lets users generate jokes about latest cricket highlights from the perspective of the teams they support.
- Blockchain-Based Federated ML** | *TypeScript, Go, Hyperledger Fabric, TensorFlow.js*
- Coded the application logic to train local neural network updates on peer devices authorized by registered organizations, which are averaged periodically on a blockchain using federated averaging and smart contracts.

EDUCATION

- Bachelor of Computer Science, Honors, Co-op** | *University of Manitoba* Jan. 2018 - Jan. 2023
- CGPA: 3.86/4.5
 - Dean's Honor List (Fall '19, Winter '21)