

# JASKIRAT SINGH

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## Skills

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**Languages:** Go, Svelte, Java, C++, JavaScript, Python, Verilog, VHDL

**Backend Frameworks:** Spring Boot, Express.js, Node.js, MongoDB, PostgreSQL, SQLite

**Cloud/DevOps:** AWS (EC2, Lambda, DynamoDB), Azure, Git

**Tools:** ModelSim, Figma, Android Studio, IntelliJ, VScode, Cursor

**Frontend:** React, HTML, CSS

**Soft Skills:** SCRUM Master, Mentorship, Agile delivery, Trilingual – English, Hindi, Punjabi

## Work Experience

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**Alchemilia Ventures, India** | Remote

June 2025 - present

Software Dev Engineer

- Built a full-stack fleet monitoring and driver alerting platform that processes real-time GPS and telematics data from trucks and vehicles.
- Designed and implemented Go-based backend microservices for high-frequency data ingestion and event processing
- Developed an interactive Svelte front-end dashboard for live vehicle tracking, alerts, and analytics.
- Integrated OBD-II / GNSS telemetry, automated alerts for route deviations, speeding, and idling events.
- Designed a WebSocket-driven real-time communication layer for instant updates across clients.
- Focused on reliability, performance, and modular code structure to support large-scale fleet operations

**Amazon, Vancouver, B.C, Canada**

May 2022 - Dec 2024

Software Dev Engineer

- Served as technical lead throughout the full development lifecycle, end-to-end, from scoping, design, implementing, testing, delivery, and maintenance of projects, handling 8M+ requests per day using Java, Spring and C++.
- Served as Scrum Master to improve sprint velocity by 25%; resolved blockers and facilitated agile ceremonies, ensuring smooth collaboration across the team.
- Mentored an SDE Intern for 5 months, identifying a key pain point, designing a scalable solution, and guiding the intern through the successful implementation and launch of the project via code reviews, weekly syncs, and design discussions, leading to a return offer for the intern.
- Contributed heavily to operational excellence through extensive on-call ownership, and taking on Ops projects; setting up alarms and monitoring strategies across AWS infrastructure (EC2, S3, Lambda, SNS, SQS). My solutions often included advanced alerting techniques using mathematical indicators like rate of change and second-order derivatives resulting in smoother on-call and customer experiences.
- Led the migration of legacy Alexa Smart Home services to a modern, scalable architecture, integrating AI/LLM capabilities with Amazon Smart Home APIs to enhance voice-enabled user experiences and developer extensibility.

## Technical Projects

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**Physviz** - Javascript, React, Git, Netlify, Heroku, AWS, DynamoDB

- Designed and developed a tele-rehab website for physiotherapists to perform secure clinician access, remote patient management, and data analysis, which resulted in immediate acceptance for clinical research.
- Designed and developed a cross-platform mobile app for patients providing real-time biofeedback with the help of force sensors communicating via BLE.
- Developed and deployed CI/CD backend server and database using AWS, Heroku, and Netlify.

## Formal Education

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**University of British Columbia**

**Vancouver, B.C., Canada**

B.A.S.C Computer Engineering

Dec, 2021