

# Jastegh Singh

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## EDUCATION

### University of Alberta

Edmonton, CA

Major in *Computer Science*

- Relevant Coursework: Data Structure and Algorithm, Android App Development, Web Development, Formal systems and logic in Computing Science, Calculus (I II III), Statistics (I II), Introduction to engineering design, and Linear algebra.

## EXPERIENCE

### Smart Haven (Telus Partner)

June 2022 - Aug 2024

*Sales Representative*

- Achieved over \$500,000 in revenue through effective sales strategies, consistently meeting and exceeding targets.
- Co-managed a team of 12 sales representatives, providing training and in-depth product knowledge to enhance team performance and drive overall sales growth.
- Sold a full range of Telus products, with a primary focus on security alarm systems, by directly engaging and building relationships with customers to understand and meet their needs.

### Singh Enterprises Pvt Ltd

April 2021 – Sep 2021

*Sales & Product Operations Specialist*

- Oversaw nationwide distribution, achieving a 20% increase in distribution reach within four months by optimizing logistical processes and strengthening partnerships with key distributors.
- Guided customers in choosing optimal electronic products (phones, speakers, etc.) tailored to their needs, elevating customer satisfaction and driving increased sales.
- Analyzed sales data to identify high-demand products, informing stock and promotion decisions and aligning inventory with customer preferences.

## PROJECTS

### SocialDistribution | Python, JavaScript, Django, Heroku, REST API

Sep 2024 - Nov 2024

- Engineered a scalable, decentralized social networking, enabling cross-node post sharing, secure user interactions, and real-time content aggregation. Leveraged an advanced inbox model to distribute posts across nodes with flexible privacy settings (public, unlisted, friends-only), creating a connected network of independent nodes.

### Dragonshell (UNIX Shell) | C, Linux System Calls, Process Management

Sep 2024 - Oct 2024

- Built a UNIX-style command-line shell in C, featuring core OS functions like process control, signal handling, and inter-process communication. Added support for built-in commands (cd, pwd, exit), background execution, input/output redirection, and piping. Utilized system calls (fork, execve, pipe) for efficient and reliable command execution.

### QR Dasher (Android App) | Java, Android Studio, Figma, Firebase, XML

Jan 2024 - Apr 2024

- Developed an Android app for event check-ins using QR codes, geolocation-based attendance verification, featuring profile creation, and event organization. Included real-time notifications and an interactive leaderboard to enhance user experience.

### ByteSnake | RISC-V, Assembly Language, Computer Architecture

Mar 2024 - Apr 2024

- Developed a functional Snake game in RISC-V Assembly, featuring efficient game logic with real-time snake movement, collision detection, and randomized apple generation via a Linear Congruential Generator. Utilized memory-mapped I/O for direct keyboard and display control, leveraging timer interrupts for precise, responsive gameplay.

## TECHNICAL SKILLS

**Languages:** C/C++, Java, Python, SQL (NoSQL), JavaScript, HTML/CSS

**Frameworks:** Django, React, Node.js, Flask

**Developer Tools:** Heroku, Postman, Git, Google Cloud Platform, Docker, Visual Studio

**Concepts:** Data Structures and Algorithms, Database management, Multithreading, REST APIs and HTTP Protocols, Data Science, Web Development, JSON