

# Jensen Khemchandani

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[LinkedIn](#) · [Github](#) · [Personal Website](#)

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## Work Experience

**Willowglen Systems Inc** | Edmonton, AB, CA.

**Co-op Software Developer** | Jan. 2021 - Sept. 2022 -- Apr. 2023 - Sept. 2023

- Administered on-premises **Kubernetes** clusters to secure, run, and monitor the deployment of containerized applications for mission critical SCADA software.
  - Automated the provisioning of in-house development environments and on-site architecture using **Bash** and **Ansible** scripts alongside **Terraform**.
  - Developed, tested, and deployed **Golang** and **C++** services and applications.
  - Improved unit and functional test coverage by 20-50% for key services and application components.
  - Streamlined in-house testing and validation processes by automating existing workflows via **Gitlab CI/CD** pipelines.
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## Education

**B.Sc. Computer Science** | University of Alberta | Edmonton, AB, CA

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## Personal Projects

**Cloud Computing Dashboard** | **NodeJS, React, REST API, PostgreSQL, Stripe, Docker**

- A full stack web application which provides users with an interactive dashboard to manage and create cloud-hosted development environments.
- Responsible for creating and testing a robust back end, including OAuth authentication, user management, and secure integration with the Stripe e-commerce platform.
- Designed the application for deployment flexibility with Docker.

**Community Library Social Media App** | **Java, Kotlin, Android**

- A mobile app which provides a social community for showcasing your personal book collection and sharing books with other users.
- Implemented a QR code scanning component that captured valid ISBN book codes and automatically retrieved/manipulated book information from the Google books API.
- Managed user account/device data using a cloud-hosted NoSQL database.

**Community Group Finding Application** | **Ruby on Rails, HTML, CSS, PostgreSQL**

- A full stack web-application that allows users to easily find and organize groups of player characters for a popular video game.
- Developed the front-end using HTML/CSS and created the backend RESTful API using Ruby on Rails and PostgreSQL.

**Intelligent Sudoku Solver** | **Python**

- An intelligent solver for 9x9 sudoku puzzles which utilizes recursive backtracking, along with a domain specific implementation of the AC3 constraint satisfaction algorithm to simplify the state space at each iteration of the search.
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## Skills

**Languages:** Javascript, C++, Golang, Java, Python

**Tools/Frameworks:** Git, Gitlab CI, SQL, Docker, Kubernetes, Ansible, Bash, Terraform, React, GTest, RHEL