

# Jensen Khemchandani

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## Education

**B.Sc. Computer Science** | *University of Alberta | Edmonton, AB, CA* | Sept. 2018 - Apr. 2024

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## Experience

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

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

- Administered multiple on-premises Kubernetes clusters to secure, run, and monitor the deployment of containerized Golang and C++ applications for mission critical SCADA software
  - Automated the provisioning of in-house development environments and on-site architecture using Bash, Ansible, and Terraform
  - Developed a search engine API in C++ that provided internal services an interface for filtering and retrieving data from a central database
  - Improved unit and functional test coverage by over 50% for core data processing services
  - Streamlined in-house testing and validation procedures using Gitlab CI/CD pipelines
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## Projects

### **Cloud Computing Dashboard**

- A full stack web application which provides users with an interactive dashboard to manage and create cloud-hosted development environments
- Developed a robust front-end using React, backed by a Node.js REST API and PostgreSQL database
- Set up payment processing via secure integration with the Stripe e-commerce platform
- Deployed the application as a set of containerized services using Docker

### **Community Library Social Media App**

- An android app which provides a social community for showcasing your personal book collection and sharing books with other users near you
- Implemented a QR code scanning service which retrieves and processes book information from a public books API
- Managed user account/device data using a cloud-hosted Firebase NoSQL database

### **MMORPG Group Finder Application**

- A full stack web-application that allowed users to easily find and organize groups of player characters for a popular multiplayer video game
  - Developed with an MVC architecture design, utilizing Ruby on Rails and PostgreSQL
  - Deployed and hosted on Heroku, capable of servicing over one hundred concurrent users at its peak
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## Technical Skills

**Languages:** *JavaScript, C++, Golang, Java, Python, Ruby*

**Developer Tools:** *Git, Gitlab CI, Docker, Kubernetes, Ansible, Bash, Terraform, Linux*

**Frameworks:** *React, Node.js, JUnit, GTest, NestJS, Ruby on Rails, PostgreSQL, Redis*