

# Gurjog Singh

Edmonton, AB, T6E 2C5 | 587-566-8297 | gurjog@ualberta.ca | <https://gurjogsingh.github.io/portfolio/>

## Education

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Bachelor of Science: Computing Science with Specialization

Expected Graduation: April 2024

*University of Alberta, Edmonton, Alberta*

## Skills

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- Familiar with Python, Java, JavaScript, TypeScript, C#, MySQL, SQLite, MongoDB, HTML, CSS, UML, TDD.
- Experience with Agile, Angular, Azure DevOps, Docker, Django, Next.js, Figma, Git, Google Cloud Platform, MS SQL Server, .NET, Node.js, React.js, RESTful APIs, Tableau. Testing Frameworks: Cypress, JUnit, Pytest.

## Relevant Work Experience

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***University of Alberta – Software Developer Intern***

September 2023 – December 2023

– Software developer for two projects in the Faculty of Engineering, Department of Civil and Environmental Engineering.

- Leveraged 3DStudio Max .NET API, C#, MaxScript and .NET framework to develop effective plugins for 3DStudio Max.
- Refactored and debugged .NET MVC-based UI, increasing responsiveness by 10% and including enhanced functionality.
- Developed OCR system to extract and analyze text from pipe rover videos using Python, automating fault tracking process.

***PCL Constructors Inc. – Software Developer Student***

September 2022 – December 2022

– Full-stack developer in Agile practicing and Azure DevOps using team of 12 developers, for PCL's in-house estimating software.

- Implemented 3 new UI components and revamped existing ones, improving CSAT to 9 out of 10.
- Developed error management feature using Angular and SpreadJS, increasing users' error-tracking efficiency by 30%.
- Utilized SyncFusion grids, MS SQL Server, JSON and generated a sorting algorithm to successfully redesign and validate Rate Trees feature UI and cross-window drag-drop functionality, receiving positive feedback from project stakeholders.

## Projects

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***Flower Girl*** – Website that identifies flower through image and generates custom poem.

June 2023 – August 2023

- Utilized React.js and Framer Motion to realize an aesthetic UI, receiving 80% positive user feedback on user-experience.
- Built flower image classification model with 80% accuracy using TensorFlow, dataset from Kaggle, deployed using GCP.
- Generates custom poem through prompt engineering using Express.js, LangChain, OpenAI GPT and OpenWeather API.

***Silver Palm Food*** – Mobile-friendly food ordering prototype for Silver Palm Hotel, Kilifi.

March 2022 – May 2022

- Engineered both UI and RESTful API using Next.js, MongoDB and Redux, allowing seamless user-experience.
- Integrated PayPal within the website, resulting in 2+ forms of payment thus increasing user convenience.
- Developed an admin dashboard to empower authenticated client to manage orders and products from the website itself.

***BingBing*** – Distributed social networking website with authentication; 5-member team project.

January 2022 – April 2022

- Designed and implemented 80% of the user-friendly UI using React.js, Material UI and React Bootstrap.
- Established connection between front-end and Django-built server, and 3 other foreign servers using Axios and RESTful API through excellent collaboration and JSON parsing, resulting in successful cross-server user interaction.
- Constructed 8+ front-end end-to-end tests using Cypress, ensuring user's UI experience met the team's expectations.

## Activities

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**Other Work Experience:** Stall Representative for Going Nuts, Inc at Strathcona Farmers' Market (October 2021 - Present)

**Volunteering:** Lesson Teacher and VP Finance at MusicBox Children's Charity UAlberta Chapter (October 2021 - Present)