

# Gurjog Singh

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## Education

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Bachelor of Science: Computing Science with Specialization

September 2019 - April 2024

*University of Alberta, Edmonton, Alberta*

## Skills

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- Familiar with Python, Java, JavaScript, TypeScript, C#, PHP, MySQL, MongoDB, HTML5, CSS3, TDD, CI/CD.
- Experience with Agile, Angular, Azure DevOps, Berry UI, Docker, Figma, Git, GitHub Actions, GCP, Laravel, MS SQL Server, Node.js, .NET, Photoshop, React, RESTful APIs. Testing Frameworks: Cypress, JUnit, Pytest.

## Relevant Work Experience

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**Knead Technologies (Startup) – Software Developer Student (Capstone)**

January 2024 – April 2024

– Full-stack developer in Agile development practicing team of 6 developers for Knead Technologies' Leftovers web application.

- Developed UI components using React and TypeScript, ensuring attention to detail in user transactions and metrics display.
- Created RESTful API endpoints and refactored existing table columns using Laravel and MySQL to add new functionality.
- Constructed 8+ end-to-end and API tests using Cypress and PHP, ensuring user experience met client's accuracy standards.

**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 analytical plugins for 3DStudio Max.
- Refactored and debugged .NET MVC-based UI, increasing responsiveness by 10% and including enhanced functionality.
- Developed OCR model to extract and analyze data from pipe rover videos using Python libraries, automating fault tracking.

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

September 2022 – December 2022

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

- Implemented and documented 3 new UI components and analytically revamped existing ones, improving CSAT to 9/10.
- Developed error management feature using Angular and SpreadJS, increasing users' error-tracking efficiency by 30%.
- Utilized Angular libraries, 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** – Web app that identifies flower through image and generates custom poem.

June 2023 – August 2023

- Used React, Node.js/Express.js, OpenAI GPT, developed TensorFlow model; deployed through Google Cloud Platform.

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

March 2022 – May 2022

- Used NextJS, MongoDB and Redux to build functional web application, and used PayPal API for food transactions.

**PinIt** - Authenticated users can pin and rate/review their favorite locations on a map and share with friends.

April 2022

- Used React, Node.js/Express.js and MongoDB to build functional web application.

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

January 2022 – April 2022

- Used React and Django to build cross-server authenticated application and used Cypress for end-to-end testing.

## Activities

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**Volunteering:** Software Research Assistant at Department of Surgery, The Stollery Children's Hospital & UAlberta Hospitals (April 2024 - Present), Lesson Teacher and VP Finance at MusicBox Children's Charity UAlberta Chapter (October 2021 - Present).