

Gurjog Singh

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Education

Bachelor of Science: Computing Science with Specialization

Expected Graduation: May 2024

University of Alberta, Edmonton, Alberta

Skills

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

Relevant Work Experience

University of Alberta – Software Developer Intern

September 2023 – December 2023 (Expected)

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

- Leveraging 3DStudio Max .NET API, C#, and .NET framework to develop plugins for 3DStudio Max.
- Rebuilding and debugging .NET MVC-based UI, increasing responsiveness by 10% and including enhanced functionality.

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

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 2023 – May 2023

- 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

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

Competitions: ProtoJam 2022 UI/UX Design participant (February 2022), ELI Case Competition participant (September 2021)

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