Ray Sandhu

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SUMMARY

Analytical software developer with a background in software design and architecture. Researches and evaluates new software, frameworks, and techniques to provide valuable recommendations to improve developer experience and adherence to best programming practices. Focused and driven collaborator skilled in mentoring onboarding employees and upgrading and debugging existing software.

EXPERIENCE

Full-Stack Developer Intern

Izzy Inc.   **September 2023 - Present，Calgary, AB**

· Tech stack: Angular frontend framework, .NET in C# backend framework, and MySQL database using an entity framework.
· Resolved 90% of reported bugs within 48 hours, leading to a significant reduction in client-reported issues and enhancing overall user satisfaction.
· Developed software modules to support new features in existing applications.
· Authored over 75 pages of detailed technical documentation, reducing onboarding time for new developers and improving team efficiency.
· Gained experience working with CI/CD pipelines and Git.
· Successfully reformatted and imported databases for 5 new clients, while reducing data import errors by 70% and accelerating the client onboarding process by over 50%.

Founder/Developer Programmer

Beltline Innovation Technologies Ltd   **May 2022 - Present，Calgary, AB**

· Self-started firm with two partners servicing 6 local businesses (and counting) and their needs for niche software solutions.
· Overseeing all aspects of operations including product development, marketing, sales, customer service, and finance.
· Successful contract with Trademark Workwear; tasked with creating a comprehensive web solution in the AWS ecosystem with carefully architected Lambda functions, hosting protocols, GraphQL/DynamoDB database designs to create a B2B e-commerce platform for custom business needs.

PROJECTS

TradeMark Workwear Enterprise Solutions

Beltline Innovation · January 2023 - February 2024

· A complex B2B tool to optimize a niche set of business requirements spanning over a year of development and the management of a team of 4 developers.
· Oversight of all parts of development including client elicitations, API development, database design, user experience and frontend design to handle $500,000+ per year worth in transactions.
· A VueJS project serviced by a combination of AWS Amplify and Lambda backend services utilizing a NoSQL DynamoDB database to handle 100's of transactions for the uniform needs of our client's largest corporate customers.

Schedule Extractor

Open Source Contribution · github.com/cbebe/bebe-sched · August 2024 - Present

· Working on a developed Schedule Extractor using Golang to convert nursing schedules into iCal format, facilitating seamless importation to Google Calendar and iCalendars.
· Improving user accessibility with a Chrome extension, expanding usability for individuals with varied technical expertise.
· Currently a work-in-progress to refactor the logic into easily referenced modules for use by web extensions and other projects.

EDUCATION

Bachelor of Science: Computer Science

University of Calgary · Calgary, AB · 2025 · 3.9

· Specialized coursework in Database Design and Management, Machine Learning and Artificial Intelligence
· Emphasis on Advanced Programming Paradigms to build on self-taught problem solving skills and logical thinking

Bachelor of Nursing (BN): Nursing

University of Calgary · Calgary, AB · 2021 · 3.8

SKILLS

Proficient Languages: Typescript, Python, C#, Java

Application Design: Figma, LucidChart, HTML/CSS/Tailwind

Web Technologies: ReactJS, VueJS, Amazon Web Services

Database Management Software: FaunaDB, DynamoDB

Soft skills: Communication between technical/non-technical teams and clients, smart deadline and goal setting, eager to ask questions

Technical skills: Troubleshooting /Debugging, Database Management, Agile Methodology, UX Design Principles