

YASH RATHORE

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EDUCATION

University of Waterloo, Bachelor of Computer Science (co-op) | **Average: 83%**

Sept 2019 - May 2024

Coursework: User Interfaces, Object-Oriented Development, Distributed Systems, Database Management, Software Delivery

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Dart, Python, C/C++, C#, Java, Scala, SQL, Bash

Technologies: Next.js, React, Express, Node, Flutter, Android Studio, PostgreSQL, JavaFX, Hadoop, Spark, Selenium

EXPERIENCE

LockIn | *Founding Engineer*

Apr 2024 – Present

- Crafted the front-end of the Flutter app with over 40 responsive UIs, boosting user engagement and functionality.
- Optimized the app by reducing database operations and implementing local caching, reducing loading times by 80%.
- Created and deployed a user onboarding and referral system with Next.js and Firebase, optimizing the sign-up process.

DNASTack | *Software Engineer Intern*

May 2023 – Aug 2023

- Improved editing and publishing data clusters efficiency by engineering 5+ angular components for the publisher website.
- Created a dashboard interface for Azure Marketplace app for easy subscription management using ASP.NET and C#.
- Integrated tracing into DNASTack Client Library to identify software bottlenecks using Zipkin and Python.

Enlighted (Siemens) | *Frontend Developer Intern*

Aug 2022 – Dec 2022

- Built a Slack bot for employee scheduling, adopted company-wide by 200+ employees, improving team coordination.
- Engineered an app's user flow enhancing team collaboration across 5+ internal teams with a point-based reward system.

HomeX | *Software Engineer Intern*

Jan 2022 – Apr 2022

- Revamped the signup flow of the mobile app by implementing 4 Flutter pages using the MVVM design pattern.
- Migrated to an external Stripe library to handle payments in the mobile app, eliminating 5+ hrs/week of manual work.
- Developed a modular Flutter web widget for seamless access to product features and services via 15+ partner websites.

Bentley Systems | *Software Engineer Intern*

May 2021 – Aug 2021

- Optimized the process for modifying links by visualizing data in a table using React and TypeScript saving 3+ hrs/week.
- Designed over 15 automated UI test cases using Selenium and C# to identify and resolve software problems.
- Utilized ESLint to identify and mitigate code quality issues, reducing the code base by over 2000+ lines.

PROJECTS

AgentPals | *Web App (React + FastAPI)*

- Built a web application for real estate agents to review and analyze property disclosure documents using Cohere, Qdrant, Supabase, FastAPI, and React.
- Architected a real-time chat interface leveraging Retrieval-Augmented Generation (RAG) and WebSockets, enabling users to interact with Cohere and query property details and associated documents.
- Generated in-depth property analyses by meticulously extracting and citing key information, with each analysis point dynamically linked to the exact highlighted text within the corresponding documents.

WatFriends | *Web App (Express + MongoDB + EJS)*

- Co-founded a student-run startup creating a networking platform for university students, attracting over 250 users.
- Led the overhaul of the front-end experience with a responsive design to expand potential customer base by 200%.

Matr, uOttHack3 – 1st Place | *Android and Web App (ReactJS)*

- Prototyped a cross-platform solution to expedite the foster care process by incorporating MQTT with Solace Cloud as the broker for seamless communication between Java-based Android application and React web app.