

Kushal Goel

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EDUCATION

University of Waterloo

Bachelor's of Computer Science (Hons.) Co-op

Level: 2A; President's Scholarship of Distinction; Cumulative **GPA: 3.98/4.0**

Waterloo, CA

Sep 2022 - Apr 2027

WORK EXPERIENCE

PayNearby

Delhi, IN

Software Engineering Intern | Java, Spring Boot, REST API, MySQL

May 2023 – Aug 2023

- Revamped PayNearby's authentication infrastructure by consolidating multiple APIs into a single microservice, resulting in a remarkable **90% enhancement in authentication time** and response speed.
- Contributed to the development of **User Store API**, adhering to OAuth 2.0 standards, to efficiently manage user details.
- Developed and conducted unit testing of the OTP Store API, covering **95% of the code**.
- Ensured data security by implementing AES encryption using a **thread pool** for storing sensitive data in the database.
- Built a Java SDK client to consume APIs using HTTP connection pooling, resulting in handling **80% more concurrent database connections** and improving scalability.
- Utilized Java, Spring Boot, REST API, MySQL, Jenkins, AWS, JUnit, Git, Ubuntu, Agile SDLC

PROJECTS

CloudX - File Management Application | Express.js, React, React Router, PostgreSQL

July 2023

- Developed a full stack feature-rich **file storage and sharing platform** like Google Drive, with a user-friendly and intuitive dashboard utilizing React.
- Facilitated seamless file uploads and downloads using **pre-signed URLs** with temporary permissions, resulting in **50% faster data transfers** and increased server efficiency.
- Implemented robust user authentication using **JWT tokens, HTTP cookies, and Bcrypt** for hashing passwords.
- Created RESTful API endpoints in Express.js, with PostgreSQL and Sequelize for data storage.
- Utilized JavaScript, Express.js, Node.js, React, React Router, Sequelize, TailwindCSS, Axios, Google Cloud

Investo - Mutual Funds Backend Application | Python, FastAPI

June 2023

- Built a web application using **FastAPI** (Python) to fetch and **analyze mutual fund data** from an external API.
- Created **10+ API endpoints** to retrieve scheme information, and calculate returns through multiple techniques.
- Utilized Python, FastAPI

YouTube Shorts to Video Player - Chrome Extension | JavaScript, HTML, CSS

May 2023

- Designed a Chrome extension to enhance user functionality while watching YouTube shorts.
- Facilitated playback controls by redirecting to the video player, addressing limitations in rewinding and skipping.
- Utilized JavaScript, HTML, CSS

Personal Website: www.kushalgoel.com (for additional information and projects)

ACTIVITIES

CodeChef , Problem Panelist

Authored and published a competitive programming problem for a global contest, garnering over 30,000 submissions

Flutter Fever , Founder

Mentored 200+ students to learn to code. Managed a personal blog on App Development with 300+ monthly views.

SKILLS

Software: C, C++, Python, JavaScript, Java, Dart, Swift, Typescript, Go

Frameworks & Libraries: Next.js, ReactJS, Node.js, Express.js, SwiftUI, UIKit, Flutter, TailwindCSS, Bootstrap

Others: Git, REST APIs, Firebase, SQL, MongoDB, Linux, Bash, HTML, CSS, Postman, Figma, Vim