

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

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 using Quarkus, adhering to OAuth 2.0 standards. Developed and conducted unit testing of the OTP Store API, covering 95% of the code.
- Ensured data security by implementing AES encryption for storing sensitive data in the database. Implemented a thread pool executor script for encrypting existing data.
- Built a Java SDK client to consume APIs using HTTP connection pooling to improve scalability, resulting in handling 80% more concurrent database connections. Deployed using a CI/CD Jenkins pipeline.
- Leveraged Knowledge in Java, Spring Boot, REST API, MySQL, Jenkins, AWS, JUnit, Git, Ubuntu, Agile SDLC

PROJECTS

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

CloudX - File Management Application

July 2023

- Developed a feature-rich file storage and sharing platform like Google Drive, using the MERN stack with a user-friendly and intuitive dashboard utilizing React components and React Router.
- 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

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

Dec 2022

- Designed a browser 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

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: (proficient) C, C++, Python, JavaScript, Java, Dart (familiar): Swift, Typescript, Go, Bash

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

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