Ankush Kumar

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o ${\cal O}$ | Github ${\cal O}$

EDUCATION

University of Waterloo

Waterloo, ON

Honours Bachelor of Computer Science

October 2022

- Coursework: HCI, Applied Cryptography, Computer Security and Privacy, Operating System, Algorithms, Data Structures, User Interfaces, Logic and Computation, Object-Oriented Programming, Probability
- Awards: University of Waterloo Presidential Scholarship

EXPERIENCE

NexDew Technologies

November 2022 - January 2024

Software Developer

Remote

- Developed and maintained **30 RESTful APIs** for "Sumaitriherp" hospital-based web application, handling CRUD operations, user authentication, patient management, & appointment scheduling, **using Spring Boot** with Spring Data JPA, Spring Security, Spring MVC, and MySQL database, resulting in streamlined processes
- Improved web response time by 15% through SQL query optimization and API endpoint refactoring
- Implemented data validation & error handling, reducing errors by 25% & ensuring accurate data processing

SOCA May 2021 - August 2021

Web Developer

Waterloo, ON

- Built an interactive website using **React** and **Redux** for a cricket league, used by more than 200 users, with features including user profiles, user & team stats, previous scorecards and a league leaderboard
- Improved load time by 15% by managing website's state with redux and integrating lazy loading of images
- Implemented user-centered design, applied multi-page layout, DRY principle using React-Bootstrap and CSS
- Built a scalable UI capable of handling big traffic load by reducing UI re-renderings which $\mathbf{decreased}$ data $\mathbf{processing}$ \mathbf{cost} by $\mathbf{20}\%$

PetroWagon August 2019 - January 2020

Software Engineer

Waterloo, ON

- Developed an **android app** for an online fuel delivery service-based start-up from scratch
- Programmed app's local database using Android Room and implemented SQL queries to store mutable live data
- Built **onboarding flow** to collect user information for customized suggestions
- Maintained structured code using MVVM architecture to enhance reusability and optimized app performance

Davis Centre Library

January 2022 - August 2022

IT Specialist (Part-time)

University of Waterloo

- Monitored & troubleshoot network security issues using **Nessus** and **Nmap**, responding to security threats
- Maintained library's Sophos firewall and virtual infrastructure, resolving issues for seamless operations

Projects

Wallet $\mathcal{S} \mid Java$

- Created web application for user registration, authentication, fund transfers, withdrawals, and deposits
- Implemented core features using Servlets, Sessions, Persistence API, and Hibernate ORM
- Managed MySQL database for secure and efficient data storage and retrieval operations

BookYourShow & | Java

- Developed a movie booking platform with **Servlets**, enabling admin movie management and customer bookings
- Implemented seat selection and ticket printing features using HTTP methods and login using Sessions

PUBLICATIONS

ullet Enabling Brainstorming across Time Zones \mathcal{O} | Addresses a tool-suite designed for asynchronous collaboration

TECHNICAL SKILLS

Languages: Python, C++, Java, XML, Kotlin, C, JavaScript, SQL, Bash, Scheme, CSS

Databases and Tools: MySQL, OracleDB, Firebase, Hibernate, Git, AWS, Docker, Heroku, Mayen, Postman

Framework and Libraries: React, Redux, Node.js, Spring Boot Architecture Styles: Client-Server, MVC, MVVM, Microservices