Ankush Kumar

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EXPERIENCE

BMO Financial Group   November 2023 - Present
Software Engineer   *Toronto, ON*
- Developed and maintained **30+ RESTful APIs** using Java, Spring Boot, Spring MVC, Spring Security, and MySQL, optimizing internal financial operations
- Implemented secure **OAuth 2.0** & **JWT**-based authentication to enforce robust user access control across services
- Deployed scalable services on **AWS** using EC2, S3, and RDS, improving system reliability & deployment efficiency
- Refactored APIs and optimized SQL queries, **improving response times by 15%** and reducing processing load
- Built centralized error handling and data validation layers, reducing client-side data issues by 25%

Autodesk   September 2022 - October 2023
Software Engineer   *Waterloo, ON*
- Developed an **n8n-powered AI workflow** to post summaries and risk scores for merge requests, reducing code review prep time by 30% per sprint and boosting overall developer efficiency
- Built Account Portal features using **React** and **Playwright** with 100% test coverage and optimized performance
- Improved homepage responsiveness across 25+ repos and **increased user engagement on homepage by 30%**
- Led Subscription Renewal project, increasing early renewals through experiments and dashboard analytics

PointClickCare   May 2021 - August 2021
Software Engineer - Intern   *Waterloo, ON*
- Built application to simplify doctors' documentation and integrated it with existing company healthcare products
- Designed, built, and tested end-to-end MVP features using **React**, **Redux**, **Spring Boot**, and testing suites
- Worked on schema design using **SQL** in accordance with the laws in the US and Canada to protect health information and created rollback scripts as well
- Refactored monolithic code into modular components using React hooks and Redux, enhancing code scalability

Arctic Wolf Networks   May 2020 - August 2020
Software Developer - Intern   *Remote*
- Led development of a schema parser, code generator, and ML-based predictor to standardize third-party data schemas using **Python** and **Java**
- Built algorithms to automate integration, **optimized workflows by 40%** & reduced manual overhead
- Engineered a real-time log ingestion and processing tool for Microsoft Office accounts
- Enhanced security coverage across systems by enabling faster and more accurate log analysis

PROJECTS

Product Specification Extractor 🔗 | *JavaScript*
- Built a program that given the description of a product, extracts product specs, by scraping multiple fully rendered client-side HTMLs using **Playwright** & then leveraging **OpenAI API's function calling** & JSON mode

VM-Nexus 🔗 | *Python*
- Engineered VM Nexus, a **Dockerized** full-stack app for VM management using **Django** and **ReactJS**

EDUCATION

University of Waterloo   Waterloo, ON
Honours Bachelor of Computer Science   *October 2022*
- **Coursework**: Algorithms, Operating System, Object-Oriented Programming, HCI, Applied Cryptography, Computer Security and Privacy, Data Structures, User Interfaces, Logic and Computation, Probability
- **Awards**: University of Waterloo Presidential Scholarship

TECHNICAL SKILLS

Languages: Python, C++, Java, XML, Kotlin, C, JavaScript, Typescript, SQL, Bash, Scheme, CSS
Databases and Tools: MySQL, Oracle DB, Firebase Realtime, MongoDB, Redis, SQLLite, PostgreSQL, Git, Docker, Maven, Tomcat, Postman, Jupyter Notebook, JSON, CI/CD using GitHub Actions, Microsoft Azure Cloud, AWS
Framework and Libraries: React, Redux, Node.js, Spring Boot, Android, Prisma, PyTorch, Django, ReactJS
Architecture Styles: Client-Server, MVC, MVVM, Microservices, HTTP