Yash Kapoor

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EDUCATION

Carleton University, *Ottawa, Canada*   **2019 – 2024**
Bachelor of Engineering in Software Engineering (Co-op)
- **GPA**: 3.59/4.0 | **Awards**: Dean's List

SKILLS

Programming Languages: Python, Java, C, C#, C++, JavaScript, TypeScript, Bash, Racket, SQL, PHP
Technologies: Linux, HTML/CSS, Angular, React, Jest, React Testing Library, Bootstrap, Node.js, Express.js, Spring, MySQL, Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure, Docker, CI/CD, Selenium, Elasticsearch, Logstash, Kibana
Tools: VSCode, Git, Jira, Confluence, MySQL Workbench, Postman, PowerShell, Webpack, IntelliJ, Eclipse, PyCharm

WORK EXPERIENCE

Full-Stack Software Engineer Intern, *Barracuda Networks, Ottawa, Canada*   **January 2022 – December 2022**
- Developed an optimized ticket management system for managed service providers using **React**, **Node.js**, and **Elasticsearch**, resulting in a **33%** increase in operational efficiency and a **20%** improvement in data consistency.
- Spearheaded the implementation of **unit**, **integration**, **functional**, and **regression tests** across the codebase, achieving **100%** test coverage using **Jest** and **React Testing Library**, improving code reliability and integrating tests into **CI/CD pipelines**.
- Engineered and deployed **RESTful APIs** within a microservices architecture using **Docker** and **Kubernetes**, improving system scalability and reducing deployment times by **30%**.
- Designed and implemented a setup screen for Sophos Central Integration in the dashboard using **React** and **Node.js**, enabling API credential configuration, validation, and secure backend storage in **Elasticsearch** to improve user experience.
- Enhanced the CloudTrail feature in the Customer Security Dashboard using **AWS S3**, **AWS SNS**, and **AWS CloudTrail**, improving data retrieval accuracy by **20%**, while implementing alerts and **Jest** unit tests for reliable event tracking.

PROJECTS

Instant Messaging Website | *React, Node.js, Express.js, Jest/React Testing Library, SQL, MySQL*   **March 2024**
- Developed a comprehensive instant messaging platform with **React**, **Node.js**, and **MySQL**, featuring a dynamic chat list and conversation window.
- Integrated multimedia file support and message scheduling using **React**, **Node.js**, and **Express.js**, enhancing user engagement and functionality.
- Deployed the application on **Heroku** and **Netlify**, ensuring robust accessibility and performance.

Access Control System | *Python, bcrypt, JSON, RBAC, unittest framework*   **December 2023**
- Designed a secure command-line user registration and login system using **Python** and **bcrypt** for hashing.
- Incorporated **Role-Based Access Control (RBAC)** to dynamically manage user roles and access.
- Integrated a proactive password checker in **Python** using **regular expressions** to maintain high security standards.

Online Bookstore | *Java, Spring Boot, Spring MVC, Flyway, Maven, JUnit*   **November 2023**
- Developed a **Spring Boot** web application for bookstore operations including user registration, book browsing, and checkout.
- Utilized **Flyway** for effective database migrations, maintaining data integrity.
- Conducted comprehensive testing using **JUnit** and deployed the application on **Azure**, enhancing user accessibility.

Interactive Elevator Simulation System | *Java, Java Swing, UDP, JUnit, State Pattern, Multithreading*   **April 2023**
- Implemented a **GUI** for a real-time elevator simulation system using **Java** and **Swing**.
- Utilized **UDP** for effective component communication and **multithreading** for operational management.
- Applied the **state design pattern** to ensure smooth and reliable system operations.