

# 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%** and ensuring reliable event tracking through alerts and **Jest unit tests**.

## 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.