

# Parva Thakkar

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## EDUCATION

### Toronto Metropolitan University

*Bachelor of Engineering, Software Engineering*

Toronto, ON

2020-2025

## EXPERIENCE

### Software Developer

May 2023 – August 2024

*Environment And Climate Change Canada*

*Toronto*

- Boosted forecast accuracy by 20% and minimized data processing time by 30% by contributing to the design and implementation of 50+ complex **Java** components
- Spearheaded integration testing efforts utilizing **Docker**, validating 50+ components with raw input data to ensure 99.9% product quality and stability
- Authored detailed **Junit** test cases that identified critical bugs in **JSON** and **XML** parsing leading to a 43% enhancement in overall application performance
- Engineered and maintained **Jenkins CI/CD** pipelines to automate build, test, and deployment workflows, reducing deployment failures by 30% and accelerating release cycles by 40%
- Troubleshooted 150+ critical system issues by debugging using **Graylog** and **Sentry**
- Executed 100+ advanced **Elasticsearch** queries and aggregations for efficient data retrieval and analysis
- Automated API endpoint testing with **Python** scripts scheduled via Cron jobs to ensure continuous testing, resulting in a 50% reduction in manual testing

## PROJECTS

### Therapist/Patient Engagement Detector | *Python, Flask, CSS, Javascript, React, Mediapipe, OpenCV*

- Built therapy engagement system using **OpenCV**, **MediaPipe**, achieving a 93% accuracy for detecting distractions
- Optimized video processing from 5FPS to 25FPS using JPEG compression and multi-threading
- Developed a machine learning model using transfer learning to detect movements which spots a distracted patient

### Sports Betting Assistant | *React, JavaScript, REST API, CSS, HTML*

- Constructed a fluid web application using **ReactJS**, **CSS** and **HTML** to display up to 15 NFL games and betting odds, providing users with real time spread/money-line options
- Integrated a back-end service retrieving major sports odds from up to 15 sports books
- Improved user profit margins by 31% through optimized data structures and an intuitive interface for selecting the most favorable betting options

### Secure Journal App | *Java, Springboot, MongoDB*

- Engineered a secure, full-stack journal application leveraging **SpringBoot**, **MongoDB**, **Spring Security** and modular architecture across 15+ components
- Implemented secure authentication and authorization using JWT tokens and **Spring Security**, ensuring stateless session management and protecting 5+ API endpoints with role-based access control
- Integrated **MongoDB** using **Spring Data** for flexible, scalable storage of user data and journal entries, and optimized backend performance by 30% through indexing and efficient query handling

### Book Store Inventory System | *Java, JavaFX, OOP, Git*

- Led the development of a Java-based bookstore application, incorporating key **OOP** principles to manage user authentication/inventory
- Enforced design patterns to organize and store data improving data retrieval speed by 38%
- Formulated an interactive UI adopting **JavaFX** and conducted thorough case testing with Junit, reducing bug reports by 45%

## TECHNICAL SKILLS

**Languages:** Java, Javascript/Typescript, Python, SQL, HTML/CSS, XML, JSON

**Frameworks:** React.js, Node.js, Express.js, Spring Boot, JUnit, WordPress, FastAPI, Tailwind CSS

**Developer Tools:** Git/Github, Jira, MongoDB, PostgreSQL, Redis, Kubernetes, Docker, AWS, DynamoDB, CI/CD, Linux, Windows

**Concepts:** Backend/Frontend Development, Object Oriented Programming, Distributed Systems, Microservices, Databases, Networking, Data structure/Algorithms, SDLC, Operating Systems, Cloud