

# Ashok Sasitharan

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## TECHNICAL SKILLS

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**Languages:** Ruby | Python | JavaScript | HTML/CSS | Typescript

**Frameworks:** Ruby on Rails | ReactJS | Flask | Next.JS

**Developer Tools:** Git | Docker | Nginx | Claude Code | Grafana | Jira

**Databases:** MySQL | PostgreSQL | MongoDB

## EXPERIENCE

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### Full-Stack Software Engineer

Apr 2022 – Nov 2025

*Bell Canada*

*Mississauga, ON*

- **Authored 65** automated test scripts for an Android and web automation platform, reducing manual certification effort by **2,260** hours and saving an estimated **\$215,500 per year**
- **Maintained and extended** a **Ruby on Rails**-based device automation platform used by multiple internal teams, contributing new features, improving reliability, and supporting ongoing production use
- **Planned and developed** a dockerized **microservice** that identifies UI elements on smartphones using AI image detection and Tesseract OCR to enable multiple customer teams and increase development speed by 200%; worked with key stakeholders to design backend architecture and API design decisions
- **Integrated AI** microservice with the automation framework using REST API, returning actionable coordinates for programmatic interaction and improving test robustness
- **Provided production support** for a mission-critical internal testing platform by means of incident management, solving outages, and minimizing delays to device release timelines
- **Owned end-to-end development** of a **device certification system** integrating an **Anritsu network simulator**, enabling **automated signal testing** for Android device market releases

## PROJECTS

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### Itinify.net | *React, Typescript, Rails, PostgreSQL*

- **Built and deployed** a full-stack collaborative travel planning app as a solo developer featuring real-time multiplayer whiteboards, **AI-generated itineraries**, expense splitting, and a public template marketplace
- **Engineered** real-time multiplayer collaboration using **Rails Action Cable (WebSockets)**, synchronizing cursor positions with user avatars, idea cards, and canvas state across concurrent users with **sub-100ms** latency
- **Integrated Anthropic's Claude AI** API to generate personalized day-by-day itineraries based on destination, budget, travel style and interests, automatically populating **structured relational data** across days and activities with contextual Booking.com affiliate links

### Badminton Stat Tracker | *React, Express, SQLite*

- **Designed and built** a mobile-first **PWA** for creating groups, scheduling sessions, and tracking player stats with live singles and doubles leaderboard
- Designed **relational data models** and REST APIs with role-based access and transactional enrollment, eliminating **race conditions** and **preventing overbooking**
- **Managed deployment** and operations, self-hosting via **Docker and CI/CD pipelines** to **automate testing and production releases**

## EDUCATION

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### Durham College

*Ontario College Advanced Diploma, Computer Programming and Analysis*

Oshawa, ON

*Sept 2019 – Apr 2022*