Ansh Gandhi

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EDUCATION

University of British Columbia   Sep 2019 – Nov 2025
B.Sc. Computer Science   *Vancouver, BC*

WORK EXPERIENCE

Testing Automation Co-op   Jan 2025 – Present
ICBC   *Vancouver, BC*
- Saved 65+ hours of manual work by developing a Python script with Pandas to aggregate test data from scattered sources, streamlining inputs for 200+ test scripts and boosting team efficiency.
- Integrated IBM MQ API testing into GitLab CI/CD pipelines using Postman collections.
- Developed end-to-end tests with Guidewire Testing Framework to validate insurance workflows impacting 200K+ users.

Junior Software Developer   Sep 2022 – Apr 2023
Greenspace Mental Health   *Vancouver, BC*
- Boosted automated test coverage by 25% using Playwright Test, improving regression safety.
- Resolved complex Python-based ordering issues to ensure consistent frontend data display.
- Cross-validated PostgreSQL records against Looker dashboards to ensure data accuracy.

PROJECTS

Investment Portfolio Tracker | Spring Boot, Docker, OAuth 2.0, Claude   Sep 2025 – Present
- Enabled real-time portfolio management with live market updates by architecting a full-stack system integrated with Finnhub API.
- Reduced backend codebase by 40% through Spring Data JPA query derivation and repository-pattern RESTful API design.
- Maintained data accuracy and reliability by designing a normalized PostgreSQL schema ensuring ACID-compliant transactions.
- Improved security and deployment consistency by implementing OAuth 2.0 authentication and Docker-based multi-environment deployment.

Intelligent Tutoring System (Deployed) | MERN Stack   Jun 2024 – Aug 2024
- Engineered dynamic question generation via Gemini API, enabling personalized learning.
- Modeled and validated MongoDB data schemas with Mongoose ODM.
- Enhanced UI responsiveness by optimizing Redux-based state management.
- Assured system reliability through comprehensive Postman and Cypress end-to-end tests.
- Led CI/CD automation with GitHub Actions, fully automating deployment.

UBC Insights | TypeScript, Express.js, Async Programming   Jan 2024 – Apr 2024
- Developed RESTful API endpoints using Express.js to enable seamless data integration across components.
- Applied Test-Driven Development (TDD) with Chai, Mocha, and asynchronous testing to ensure high code quality and reliability.
- Utilized Parse5 and implemented Depth-First Search (DFS) to enhance structured data parsing capabilities.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript
Frameworks: Node.js, Express.js, React, Redux, Mongoose, Spring Boot
Testing: Cypress, Playwright, TestCafe, Chai/Mocha, JUnit, Postman, Cucumber
DevOps: Docker, GitHub Actions, AWS