

# Mitul Pandey

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## EDUCATION

### University of British Columbia

Vancouver, BC

Bachelor of Applied Science in Electrical and Computer Engineering, Co-op

Expected Graduation: June 2026

**Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Software Construction, Deep Learning

## WORK EXPERIENCE

### Software Developer (Freelance)

Sept 2025 – Dec 2025

Emcon Services

Vancouver, BC

- Replaced a **manual workflow** for **100+ employees** by building a **Django/React** claims portal with secure **DigitalOcean Spaces** uploads across **5 claim types**, reducing processing time through automation.
- Architected an **8-model PostgreSQL schema** for members, dependents, and claims, and built an admin dashboard with bulk approvals and data export tools that **streamlined internal review** and reporting workflows.
- Orchestrated the system to **production** on **DigitalOcean** using **Docker** multi-stage builds and **CI/CD** automation, enabling **zero-downtime releases** and reliable iteration during active development.

### Software Developer Co-op

Sept 2024 – May 2025

Clio

Vancouver, BC

- Engineered 12 reusable **Angular/Turbo Stream** components (modal dialogs, tables, notification banners), which were **leveraged by 5 engineers** and decreased average feature-build time by **20%** (from 10 to 8 days).
- Integrated LaunchDarkly **feature flags** into the Bulk Apply Trust workflow, rolling out to 1,000+ firms via our CI/CD pipeline, cutting weekly production incidents from 5 to 3 (**40% reduction**).
- Refactored 6 **Rails service objects** to eliminate redundant logic and reduce module dependencies, cutting technical debt by **20%** and accelerating new feature onboarding by **15%**.
- Devised 50+ RSpec/Capybara end-to-end tests in collaboration with **2 engineers** for billing and reporting features, increasing test coverage from **60% to 90%** and reducing regression bugs by **25%** in production.

### Software Developer in Test Co-op

Feb 2024 – Sept 2024

LGI Healthcare Solutions

Remote

- Shipped 70+ **Selenium/C# test scripts** for LGI's Scheduling web app, replacing manual QA checks and raising code coverage from 40% to 65% (**25% net increase**).
- Incorporated 45+ end-to-end tests into **Azure DevOps CI/CD pipeline**—cutting build/test cycles from 60 to 36 minutes (**40% faster**) and doubling release cadence from monthly to biweekly (**50% improvement**).

### Software Engineer Co-op

May 2022 – Sept 2022

MacDon Industries

Winnipeg, MB

- Developed 4 **Python**-based scraper modules to parse and convert 200 raw CAN signal files into a standardized DBC format, halving signal lookup time from **10 to 5 minutes** per engineer session (**50% reduction**).
- Constructed a **Django**-based web UI that invoked the Python scrapers via **subprocess**, enabling engineers to trigger conversions in one click and cutting full dataset processing from **100 to 70 minutes** (**30% reduction**).
- Authored 20 **GTest unit tests** for the signal-conversion modules, uncovering and fixing **3** critical parsing bugs pre-release to guarantee a smooth deployment.

## PROJECTS

### LinkedUp | React, ExpressJS, MongoDB, NodeJS, JavaScript, JobData API, GitHub Actions

- Built a **MERN-stack** social/job-network prototype, implemented core features for posts, comments, follows, and search; achieved sub-2 s local page loads via responsive **React/Bootstrap** components and configured **GitHub Actions** for CI (linting, tests, builds).
- Integrated **JobData API** for real-time job listings and **MongoDB** full-text search; instituted **JWT-based auth** (BCrypt-hashed passwords, token refresh) and authored **Docker scripts** to standardize local development.

### Workflow Wiz | HTML, CSS, Python, PostgreSQL, Django, AJAX, Bootstrap

- Crafted a **Django/Python** project management app with a **PostgreSQL** backend and **Bootstrap** front-end, enabled creation of projects, tasks, and chat threads, consolidating project workflows into a single platform.
- Enforced real-time chat with **Django Channels** and **AJAX-based** task-assignment endpoints, and pioneered role-based access controls to ensure seamless collaboration and data privacy.

## TECHNICAL SKILLS

**Languages:** Ruby, Python, C#, C++, C, Java, JavaScript, TypeScript, SQL, HTML, CSS

**Frameworks & Libraries:** Rails, Django, React, Angular, Express, Mongoose, AlpineJS, TailwindCSS, Bootstrap

**Databases:** PostgreSQL, MongoDB, MySQL

**DevOps & Tools:** Git, AWS, Azure, Digital Ocean, ShipIt, Docker, GitHub Actions, CI/CD, JWT

**Testing & CI:** RSpec, Capybara, Selenium, JUnit, GTest