

Froyd Tandon D Cruz Francis

DATA ANALYST – SQL, Power BI, Tableau & Statistical Programming (Python, Java)

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SKILLS

- **Programming & Scripting:** Python, Java, C++, C, SQL, TypeScript, JavaScript, PHP, Vue.js, Node.js.
- **Front-end Development:** HTML5, CSS3, Bootstrap, ReactJS, AngularJS, CSS Grid, Flexbox, Figma.
- **Back-end Development:** NodeJS, ExpressJS, JWT, Passport.js, Express Middleware, JSON, AJAX.
- **Data Tools & Analytics:** SQL Server, PostgreSQL, MySQL, MongoDB, Power BI, Tableau, Excel.
- **Version Control & Workflow:** Git, GitHub, GitLab, JIRA, Slack, Trello for agile development cycles.

WORK EXPERIENCE

Full Stack Intern

November 2021 – February 2022

SCOPE

India

- Engineered and deployed scalable front-end-back-end modules using JavaScript, Node.js, and Django frameworks; resolved 15+ backend bugs weekly; improved server response time by 38% through routing optimization.
- Collaborated with 6 cross-functional developers to update and version system documentation using GitLab pipelines; reduced access latency by 25%, maintained repository consistency, and enabled cross-team on-boarding.
- Automated unit testing pipelines and validation scripts using Python and PostgreSQL datasets; uncovered and rectified 120+ schema anomalies, cut data integrity issues by 40%, and improved debugging throughput by 35%.
- Conducted code reviews for 20+ pull requests using GitLab CI/CD pipelines; enforced linting, unit test coverage, and branching standards, improving code quality consistency and reducing production bugs by 45% system-wide.

PROJECT EXPERIENCE

Digital Transformation Strategy for Bank of Montreal (BMO)

April 2024

Lead Analyst, Ontario

- Directed digital transformation roadmap using 7 agile workflows, 5 UI/UX wireframes, 3 data blueprints, 4 cloud integrations, and 6 microservices with DevOps alignment for scalable banking infrastructure modernization.
- Proposed 3 ML-driven personalization frameworks and 2 omni-channel delivery strategies, improving satisfaction by 28%, resource usage by 21%, and executive decisions by 33% across key digital user engagement metrics.
- Delivered stakeholder dashboards using Tableau, SQL, and Power BI with 9 custom KPIs, streamlining financial workflows, reducing report latency by 47%, and aligning OKRs across 6 departmental transformation units.

Centralized Intra Campus Student Evaluation System

September 2022

Developer, India

- Built facial recognition system using Python, OpenCV, and NumPy (98.6%) for 500+ students, securing 10 unique academic portals, reducing ID misuse by 85% within an automated smart attendance tracking framework.
- Integrated robust biometric modules using Python across 5 portals, boosting encryption by 40%, reducing login fraud by 70%, and automating tracking time by 60% using secure, modular biometric access control frameworks.
- Deployed RESTful APIs with Flask and PostgreSQL for role-based access control, enabling synchronized logins, auto-grading pipelines, and 24% faster semester-wise report generation through adaptive cloud-hosted servers.

FTDF Bus Booking System

February 2022

Developer, India

- Developed PHP-based reservation system with MySQL backend for 800+ users, supporting 12 secure layouts, 3-layer authentication, and 100% confirmation emails via stateful session management caching algorithms.
- Implemented 2 route-planning algorithms improving scheduling by 45%, reducing overlap by 30%, and boosting throughput by 55% using real-time, efficient server-side caching with optimized query optimization protocols.
- Engineered admin dashboard with 6 analytics modules, allowing real-time booking system insights, failed request recovery, trip metrics auditing, and database restoration with 99.2% accuracy using cron-based backup tools.

EDUCATION

Diploma in Information Technology Business Analysis

January 2023 – April 2024

Conestoga College, Ontario

Bachelor's Degree in Computer Applications

May 2018 – December 2021

Fatima Mata National College, India

CERTIFICATIONS

- Certified Full Stack Developer – Scope India
- Python Fundamentals – Waggle Labs
- Webflow 101 & Webflow CMS Certification
- Webflow Layouts Certification Level 1 & 2