

Brian Lee

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Technical skills

- **Language:** Python, JavaScript, TypeScript, Java, C, Kotlin, R, HTML, CSS
- **Web:** React.Js, Selenium, Node.Js, Express.Js, Chart.Js, Tailwind
- **Data analysis / ML:** Pandas, scikit-learn, TensorFlow, Jupyter, Matplotlib, Numpy
- **Database:** PostgreSQL, MongoDB, MySQL, SQLite
- **Concepts:** Object Oriented, Agile Development, Data structure, RestAPI
- **AWS:** Lambda, CloudFront, S3, Aurora, Athena
- **Testing:** Pytest, Jest, Junit

Work Experience

Software Developer Co-op | Caracal Technologies Inc.

Jan 2024 – Aug 2024

- Redeveloped the reporting interface with React and TypeScript, improving performance and refactoring the codebase into a maintainable component-based structure.
- Utilized Selenium to automate accounting reconciliation processing time from 8 hours to minutes.
- Developed a dynamic file explorer for managing S3 files with secure pre-signed URLs, embedded file previews, and download functionality
- Automated frontend CD/CI pipelines deployment with AWS S3, CloudFront

Project Supervisor | Jooyee Network Inc.

Sep 2020 – April 2022

Tax Analyst | Grant Thornton LLP

Jan 2020 - Apr 2020

Projects

Developer | [AI Reporting](#) | Client Project

April 2025 – May 2025

Technologies used: Flask, OpenAI, Natural Language Toolkit, JavaScript, PostgreSQL

- Developed a Flask-based backend integrated with the OpenAI API to generate AI-powered reports
- Utilized NLP techniques (sentiment analysis, keyword extraction, N-gram modeling) to present data
- Implemented a full-stack data analytics pipeline using Python and SQLAlchemy

Developer | [AI Storyteller](#) | Academic Project

Mar 2025 – April 2025

Technologies used: OpenAI, PostgreSQL, Express, Node, JavaScript

- Developed backend API implementing OpenAI integration for dynamic story generation
- Designed route usage tracking system to monitor API endpoint consumption
- Implemented secure authentication using HTTP-only cookies and session management
- Configured PostgreSQL database including schema design, user privilege management

Developer | [Canada Employment Visualization](#) | Personal Project

June 2023 – Ongoing

Technologies used: React, JavaScript, HTML, CSS, Node.Js, Python, NoSQL, MongoDB, Chart.Js

- Visualize and graph different employment data such as pay rate, employment rate etc
- Built buttons, graphs, dropdowns, and pagination components with React.Js
- Implemented API endpoints call using Node.js connecting back end and database
- Designed and implemented efficient data structures for storing complex objects on DB

Education

British Columbia Institute of Technology | Computer Systems Technology | CGPA: 90%

Jan 2023 – May 2025

University of Toronto | Bachelor of Science | Major in Mathematics and Chemistry

Sep 2013 – May 2018