Deep Patel

Toronto, ON

📞 647-526-3337 ✉️ deep.c.patel@torontomu.ca 🔗 linkedin.com/in/dpatel3337 🐙 github.com/deep-patel21

Education

Toronto Metropolitan University (Formerly Ryerson University) — Sep. 2021 – Apr. 2025

Bachelor of Computer Engineering — *Toronto, ON*

- Software Design, Data Structures, Algorithms, OOP Fundamentals, Dabatase Management, Digital Systems, Computer Architecture, Microprocessor Systems

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL, MATLAB, VHDL, HCS12 Assembly
Developer Tools: GitLab, Ansible, Jira, Confluence, Postman, Kibana, VS Code, Google Cloud Platform (APIs)
Libraries/Frameworks: Linux, JavaFX, Flask, React, Pygame, Tkinter, Spotipy, PyMunk, Chart.js, RESTful APIs

Experience

Bell Canada — May 2023 – Aug. 2023

DevOps Engineering Intern — *Toronto, ON*

- Owned Linux Automation project to improve Ansible Playbook usage and DNS maintenance for A, PTR Records.
- Incorporated scripts using Python and YAML to aggregate required IP addresses into an organized format and to refresh servers with latest builds, to automate upgrade process.
- Implemented RegEx filters in 6 domains to improve Multi-Edge Compute processing times for CDN, tested using Postman, validated using Elastic Kibana.
- Shadowed production deployment and prepared Confluence documentation under CI/CD pipline.
- Followed Agile methodologies to contribute to Jira sprint planning, retrospectives and presentations.

The Royal Conservatory of Music — Apr. 2018 – Sep. 2021

Assistant Piano Teacher — *Toronto, ON*

- Assisted lead teacher for group and private teaching sessions for 10+ cohorts of students aged 5 to 16 of levels 1A to 6 under the RCOM program syllabus.

Projects

Notes4You Piano Web App | *Python, Flask, JavaScript, RESTful APIs*

- Developed a responsive music player application that auto-queries tutorial videos delivered by the YouTube Data API.
- User authorization using OAuth, couplied with Spotify Web API to fetch user playlists, managed with Flask endpoints.
- Dynamically rendered templating using Jinja2 to render content on the HTML/CSS frontend.
- Expanding to Arduino + ARGB hardware integration to allow synchronous visual feedback from digital pianos, controlled the Python MIDO library for MIDI interfaces.

Sorting Algorithms Visualizer | *Python, Pygame*

- Extended my course learning of sorting algorithms in C, by learning the logic in Python, and developing an interactive GUI, using the Pygame library to implement bubble, insertion, and selection sort visuals.

Systematic Investment Planner | *HTML, CSS, JavaScript*

- Designed a highly customize investment visualization tool, supporting multiple views of year by year portfolio analysis.
- Implemented Web storage techniques to provide continuously smooth updates to tables and graphs.
- Created dynamically generated graphs with chart.js, using economics formulas to compute future values of compounding investments.

Bookstore System | *Java (OOP), JavaFX, Visual Paradigm*

- Developed a POS application for online bookstores to maintain inventory, buy/sell books, and manage customer membership information.
- Implemented design patterns such as State Factory, Facade, and Singleton to incorporate strong OOP principles.
- Created a GUI using JavaFX, comprised of several distinct page elements to register, login, add books to cart, and update membership points/status.

Interests and Languages

Spoken: [Fluent]: English, Hindi, Gujarati, [Classroom-Proficiency]: French
Hobbies: Piano, badminton, trail-biking, hiking, assortment of Rubik's Cube style puzzles
Relevant:: Building custom computers, reading and learning about new technologies to incorporate in projects