

# Swakhar Poddar

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## Skills

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- Java | Python | R | C | Solidity | C# | Flutter | Android | JS | Machine Learning | SKLearn | PyTorch | OpenCV | OOP | Git | MSSQL | NoSQL
- Firebase | Azure | AWS | CI | CD | Jenkins | GNU | Docker | Unit Testing | Service Test | SonarCloud | JFrog | Parallel Programming | CUDA

## Education

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**Bachelor of Science (Co-op)** University of British Columbia **Grad. May 2023**

- Major in Computer Science, Minor in Data Science

**Data Science Professional Certificate** IBM **August 2020**

## Experience

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**Academic Advising Technical Asst.** University of British Columbia **09/2022 - Present**

- Developing internal tools to be used by the UBC Advising Team for a smoother transition to the new UBC Workday Student platform.
- Once the project is complete it is estimated to save 25000 student advisor hours / year which is roughly equivalent to around \$1M.
- Writing **OOP** and **DOP Python** code for the tools using **TDD** methodologies.

**Undergraduate Research Asst.** **05/2022 - 08/2022**

- Worked with the School of Engineering, UBC Integrated Transport Research Team.
- Designed, Developed, and Tested **Python** code used by the researchers for analyzing 1.3M data points, later used in traffic simulations.
- Created technical **documentation** and training materials for the researchers on how to manage the repository and use the program.

**Teaching Asst.** **01/2022 - 04/2022**

- Department of Computer Science | TA for CS315 (Operating Systems) & CS123 (Computer Creativity).
- Conducted labs, review sessions, office hours, and marking. Marked over 1000 unique assignments, midterms, and final exams.
- Achieved an average TA rating of 4.1/5.00 on teaching performance, communication and knowledge.

**Software Engineer (Co-op)** QHR Technologies - Loblaws **09/2020 - 12/2021**

- Worked on Migration infrastructure of QHR Accuro: EMR platform used by 70% of the health professionals & hospitals in Canada.
- Researched, designed, implemented and tested new client side **features** for **release**.
- Wrote code to **develop** internal tools for cross teams for successful data migrations and also to maintain some of the tools, with **bug** fixes.
- Collaborated with different teams to provide **custom jars** for different releases for different Accuro users.
- Also contributed towards **CI/CD** pipelines(Jenkins, sonarcloud), **artifactory** setup (jFrog), and shifting to **Azure**.
- Wrote **Java**, **C#** software on **Agile** software team with **MSSQL**, using **Git** for version control and **JIRA** for management.
- Developed using **test-driven** development methodologies. Wrote **unit**, and **service** tests.

**Teaching Asst. & Coordinator** University of British Columbia **09/2019 - 07/2020**

- Dept. of Computer Science | TA for DATA301 (Data Analytics), CS111 (Java OOP), CS121 (Advanced CS).
- Conducted labs, review sessions, office hours, and marking along with managing all the TAs effectively alongside solving their issues.
- Achieved an average TA rating of 4.6/5.00 on teaching performance, communication and knowledge.

**Undergraduate Research Asst.** **09/2019 - 01/2020**

- MURPH Scholar 2019 - Selected out of 150 Applicants. **Researched** in-app gamification techniques for smoke-quitting apps.
- Implemented Phase-I **android** prototype from the findings of the research and worked in a multidisciplinary group of 5.

## Entrepreneurship

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- **TwentyFour**: Co-founded with the vision of revolutionizing last-mile delivery in Vancouver. On-demand delivery app for anything except food. Part of entrepreneurship UBC (eUBC) accelerator. Right now in a stage of merger discussion. **(09/2021 - 10/2022)**
- **Compile Labs**: Co-founded with the vision of helping smaller businesses to increase their online presence during COVID. Created technological solutions (website/app) for more than 30 businesses and helped them to do business in COVID. **(07/2020 - 12/2021)**

## Projects

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- **ML Business Analysis**: Used Foursquare **api** with Toronto area data to analysis restaurant business opportunity with **Machine Learning**.
- **Android App**: Built an app to book a sitter for babies, pets and care aid people. Built using **Java**, **Android Studio** and the **Android SDK**.
- **More Projects: Visit here**