

# SMIT DESAI

I solve everyday issues with code

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## EDUCATION

### Bachelor of Computer Science

2019 - 2023

Concordia University, Montreal

- Major CGPA: 4.05/4.3 - Dean's list 2019-20, 2020-21, 2021-22
- **Self Taught:** MERN stack app development, Deep Learning, Data Structures and Algorithms.
- **Co-founded** the Google Developer Student Club at Concordia; Organized tech-workshops for students during 2021.
- **Teaching Assistant:** COMP 352 - Data Structures and Algorithms.
- IEEExtreme 13.0: Competitive Programming - Ranked **13<sup>th</sup> in Canada**.

## WORK EXPERIENCE

### Okta – Toronto

May 2022 - Aug 2022

Software Engineer Intern – Okta Verify: MacOS Client

- Added support for Bluetooth TouchID by integrating and encapsulating macOS API for biometrics detection.
  - Collaborated with Product Designers to develop **user-centric** desktop UIs and UX flows.
  - Refactored codebase to MVVM pattern and **increased** test coverage by writing unit and functional tests.
  - **Improved** testing efficiency by building a CI pipeline using Bitbar to execute End-to-End UI tests.
- Technologies used: Swift, XCTest, Xcode, CocoaPods, Bash, Bitbar, Git, Agile, Jira.

### Scotiabank – Toronto

Jan 2022 - Apr 2022

Software Engineer Intern – Real-time Rails Payment Lab

- Developed RESTful APIs for validating Interac e-transfers in a microservice architecture with the Payment Hub team
  - **Improved** APIs throughput by **4 times** and response-time by **540ms** by implementing a Cache in Spring boot.
  - **Enhanced** performance by **46%** by replacing sequential API calls with asynchronous parallel calls.
  - Developed automated API testing using postman; mocked external API and DB calls using Wiremock and H2 database.
  - **Increased** test coverage to **96%** by writing unit tests.
- Technologies used: Java MVC, Springboot, Junit, IntelliJ, Git, Agile, Wiremock, Postman.

## PROJECTS

### LectureNotes

Aug 2021

- **Problem:** My friends complained that notetaking during a virtual lecture was difficult as it hindered their concentration.
  - Built a Chrome extension to take lecture notes from a live session with support for multiple languages and platform independent.
  - **Increased** performance by **~70ms** by implementing a dual communication channel of http requests and web sockets.
- Technologies used: Node.js, Web Sockets, Google Speech-to-Text, DeepAI text summarizer, HTML/CSS, JavaScript

### GetYourVaccine

May 2021

- **Problem:** Vaccines were scarcely available in India, as a result they were booked before most people got aware.
  - Developed a web-app and a RESTful server to notify users as soon as a vaccine is locally available; **57 registered users** in 3 weeks.
  - **Improved** communication latency by replacing emails with SMS and **lowered** Twilio billing by **25%**.
- Technologies used: Node.js, Express.js, AWS MySQL, Twilio, AWS EC2, REST API, HTML/CSS, JavaScript

### YouMusic

Dec 2020 - Mar 2021

- **Problem:** My father and his non-technical friends were having difficulties in downloading songs from the internet.
  - Developed a web-app, a Chrome extension and a RESTful server to stream and download audio from YouTube.
  - **Reduced** buffering by **87%** by configuring server to serve range requests and further reduced it to **real time** by caching.
  - **Optimized** server performance by **~20%** by using asynchronous chunk processing; **22 users** in first 10 days.
  - **Enhanced** client satisfaction by building search UI thorough integrating YouTube ifame and Data API's
- Technologies used: Node.js, Express.js, YouTube Data & Iframe API, Docker, Heroku, REST API, HTML/CSS, JavaScript

## VOLUNTEERING AND LEADERSHIP

### Software Engineering and Computer Science (SCS) Concordia – Montreal

May 2020 – April 2021

Vice-President of Projects

- Worked in a team of 13 people in Agile; Conducted 21 weekly coding competitions and held review sessions to discuss questions.
- Organized and **hosted 4** algorithmic **workshops**; **Taught** various algorithms to **45+** students visually with their practical usage.
- **Prepared 70+** students for coding interviews and **increased** participation rate by **64%** by reaching out to 150+ students.

## SKILLS

• C++ • Java • Springboot • Swift • JavaScript • Node.js • Express.js • MySQL • Git • AWS • REST-API • Linux