

# SHARVAI PATIL

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## OBJECTIVE

Seeking a Software Development Engineer internship or co-op that would require the application of my knowledge obtained from extensive experience with developing real-world applications along with having the experience of working in a multinational corporation to solve challenging problems.

**Availability:** Summer 2022

## EDUCATION

**Rochester Institute of Technology, Rochester, NY**

**2021 – Expected 2023**

- Master of Science in Computer Science
- Awarded a Merit Scholarship of 40% on tuition

**K. J. Somaiya College of Engineering, Mumbai, India**

**2016 - 2020**

- Bachelor of Technology in Computer Engineering
- GPA: 8.63/10

## SKILLS

**Programming Languages:** Java, Python, Dart, C, C++

**Frameworks:** Flutter, Django, Bootstrap, ExpressJS, AngularJS, Flask

**Web Technologies:** HTML, CSS, Ajax, NodeJS

**Scripting Languages:** JavaScript, PHP

**Database Technologies:** MySQL, MongoDB, Firebase Cloud Firestore

**Miscellaneous:** Git, SEO, Product Development, Firebase Authentication, Firebase Cloud Messaging, Android

## WORK EXPERIENCE

**Deputy Manager at Jio Platforms Limited**

**July 2020 – Jan 2021**

- Developed and tested modules for the SMF Core of the Jio 5G architecture with the SMF Core Development team.
- **Technologies used:** C, C++

**Founded and created MEAGL.com - <https://tinyurl.com/meaglweb>**

**December 2016 - July 2020**

- Created a fully functional website where users can upload their creations and be able to earn money from them in the form of tips using **PHP, MySQL, HTML, CSS, JavaScript, and Ajax**.
- Integrated the **PayPal Payment Gateway** into the website.
- Recognized as a Campus Company by the Bloombox Entrepreneurship Cell of K. J. Somaiya College of Engineering
- Created the **MEAGL App** using Android and Firebase

**Search Engine for MEAGL.com - <https://tinyurl.com/meaglssearch>**

- Created a powerful search engine using only 80 lines of code using the **Levenshtein Algorithm**.
- Ability to find any username on meagl.com using closest matches.

## SOFTWARE DEVELOPMENT INTERNSHIPS

**K. J. Somaiya College of Engineering, Mumbai, India**

**December 2019 - May 2020**

- Built the KJSCE Canteen Android app that aimed at solving the problem of lunch-time crowding by modernizing and streamlining the existing paper-based food ordering system into a completely online, mobile app based system in the college canteen using **Flutter, PHP, MySQL and Python**.

- Used Raspberry Pi 3 to schedule cron jobs to automate digital printing of receipts and trained canteen staff to use the app and printing facilities.
- Beta-tested the app with about 80 users.
- Link: <https://tinyurl.com/kjscecnt>

#### **K. J. Somaiya College of Engineering, Mumbai, India**

**December 2018 - July 2019**

- Developed and deployed the Career Advancement Scheme & Self-Appraisal's Portal – an online portal that allows over 200 faculty members to apply for pay-grade increments using **PHP, MySQL, JavaScript, HTML, CSS, and Ajax**.
- Link: <https://tinyurl.com/kjscecas>

### **PROJECTS**

#### **Coding Dojo App - <https://tinyurl.com/cdngdojo>**

**October 2020 – August 2021**

- An Android app developed using **Flutter and Dart** that elucidates the process of coding for beginners and aids in complex logic building for programmers in a novel and gamified way that ensures the full attention of the learner and reduces learning fatigue.
- Currently at 2500 downloads on the Google Playstore with a 4.7-star rating.

#### **Gaming Assistant App for the Physically Disabled**

**August 2019 - May 2020**

- Created an Android app that uses **Speech-To-Text (Trigger word detection)** technology using Python to enable people who are deprived of the ability to play mobile games on account of a **missing limb or both** to play android games, that are already present in the Google Playstore, on their smart-phones, using only their voice.
- Undergrad Final Year Project.

#### **Participated in KJSCE CodeCell Hackathon - <https://tinyurl.com/s6f8yw68>**

**October 2018**

- Built a website using **Django and JavaScript** that achieves **automation in meeting summarization** using Watson API's Text-to-Speech conversion using cognitive computing followed by **Natural Language Processing** in **Python**.

#### **Projects on Khan Academy – <https://tinyurl.com/kaproj>**

**2014 - 2016**

- Developed multiple **games** and an **educational animation** on Khan Academy using **JavaScript**.

#### **Library System**

**July 2014 - December 2014**

- Created a Library System using **Java** consisting of all essential features required by a library including issuing books, returning books, addition of new books, and deletion of books.

### **RESEARCH WORK**

Published the research paper titled **Phoenix Gaming Assistant App - an Assistant App for the Physically Disabled** in the International Research Journal of Engineering and Technology (Volume 07, Issue 08)

Link: <https://tinyurl.com/phnxgmgapp>

### **ACHIEVEMENTS**

- The Car Run game created in 2014 on Khan Academy topped the Hot Programs' chart for a period of 7 days and was the 8th most voted program on all of Khan Academy for a period of 3 years. Current position: 65th most voted program. (Link: <https://tinyurl.com/44ms27cs>)
- MEAGL received **24,000 page views** till it was shut down (August 2017 - July 2020) with about **3,800 users** from over **90 countries** over the world including India, United States, Canada, United Kingdom, Italy, Brazil, Russia, Azerbaijan, Turkey, Poland, and Malaysia.