

HARSH KAPADIA

🌐 harshkapadia.me 🐙 github.com/HarshKapadia2 🔗 linkedin.com/in/harshgkapadia ✉️ contact@harshkapadia.me

EDUCATION

Boston University – The Graduate School of Arts & Sciences (BU GRS)

Dec 2023

Master of Science in Computer Science (SGPI: 3.80 / 4.0)

Boston, USA

- Completed courses: Grad. Intro. to Computer Networks, Grad. Intro. to Databases, Object Oriented Software Design
- Ongoing courses: Network Security, Directed Study (on Data Center Transport Protocol 'Homa'), Software Engineering

University of Mumbai – Thadomal Shahani Engineering College

May 2022

Bachelor of Engineering in Information Technology (CGPA: 9.02 / 10.0)

Mumbai, India

- Selected courses: Web Dev., Computer Networks, Network Security, Enterprise Network Design, DBMS, Adv. Data Management, Cloud Computing, Operating Systems, Data Structures, Analysis of Algorithms, Project Management

SKILLS

Web: React.js, Node.js (Express.js), Flask, HTML, CSS, JS

Databases: MySQL, MongoDB

Tools: [Git](#), [Wireshark](#), [Asciidoctor Jet](#), Figma

Languages: JavaScript, Java, C

Platforms: GitHub, Firebase, Heroku

CI/CD: GitHub Actions

EXPERIENCE

NanoNet Technologies Inc.

Aug 2021 – Nov 2021

Software Intern

- Published two SDKs on npm for their [OCR](#) and [Image Classification](#) REST APIs to make it easier to use them in Node.js.
- Improved their documentation to be more developer-friendly by adding more code samples, instructions and error conditions, and migrating their API specification from Swagger 2.0 to OpenAPI 3.1.0.

PROJECTS

Git Graph | [React.js](#), [GitHub Pages](#) | [Web app](#), [GitHub](#)

Jan 2022 – present

- A web app to visualize the graphs that Git creates to connect Commit, Tree and Blob objects internally.
- Takes an existing repository to generate graph visualizations for local branches and allows highlighting specific commits.
- Taught 100+ people [the internals of Git](#) using Git Graph in my talks.

Performance Comparison of TCP Versions | [GENI](#), [Shell](#), [R](#) | [Report](#), [GitHub](#)

Nov 2022 – Dec 2022

- Compared Congestion Window size responses of TCP Reno, TCP CUBIC, TCP Vegas and TCP BBR to network congestion.
- Compared the fairness of two TCP versions running simultaneously on the same connection.

Git Internals | [Asciidoctor Jet](#), [GitHub Pages](#) | [PWA](#), [GitHub](#)

May 2020 – present

- A PWA documenting and explaining the internals of Git.
- Explains the contents of the `.git` directory and the connections between Commit, Tree and Blob objects.

HPS Gems | [PHP](#), [MySQL](#), [HTML](#), [CSS](#), [JS](#), [Heroku](#) | [Web app](#), [GitHub](#)

Oct 2020 – Dec 2020

- A JAMstack e-Commerce CRUD web app for selling raw gemstones.
- Users can add items to their cart, place orders and view their shopping history and profile.
- Uses the Fetch API to connect with the PHP API and uses the Web Components API to optimize rendering products.

OTC CatchUp | [Express.js](#), [Asciidoctor Jet](#), [Shell](#), [HTML](#), [CSS](#), [JS](#), [Deta](#) | [Web app](#), [GitHub](#)

Sep 2021 – present

- Created a web app for managing weekly OTC CatchUp Tech discussion sessions.
- Hosts session summaries created using Asciidoctor Jet and manages session joining links using Deta Base.
- Currently helping manage active Open Source contributions to the project.

EXTRACURRICULAR ACTIVITY

Our Tech Community (OTC) | ourtech.community

Jan 2020 – present

Organiser

- Started a Tech-loving open-to-all community with 450+ current members.
- Hosted 800+ hours of weekly [OTC CatchUp](#) sessions involving technical discussions, project showcases and talks.
- Organised two in-person [OTC MeetUp](#) events with 60+ attendees each.

Talks | talks.harshkapadia.me

Jun 2020 – present

- Impacted 700+ people in 19+ talks and workshops at various technical meetups.
- Conducted in-person talks on [The Internals of Git](#) at TechTogether Boston 2022 and BostonHacks 2022.
- Gave talks on [Git basics](#), [Git internals](#) and [GitHub Actions](#) for GDSC TSEC with 200+ participants.

Hackathons

Sep 2019 – present

- Organised three editions of [TSEC Hacks](#) (2020-22) with 200+ in-person participants.
- Mentored and judged in-person at [HackMIT](#) 2022, [BostonHacks](#) 2022 and [TechTogether Boston](#) 2022.

Google Developer Student Clubs Boston University

Sep 2022 – present

- In-person 'Community Ask Me Anything' panelist and volunteer at [GDG DevFest Boston 2023](#).

GitHub Campus Expert

Oct 2021 – present

- One of the 82 students selected out of 8000+ applicants worldwide.