

# HARSH KAPADIA

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## EDUCATION

### Boston University – The Graduate School of Arts & Sciences

Dec 2023 (exp)

Master of Science in Computer Science

Boston, USA

- Coursework: Grad. Intro. to Computer Networks, Grad. Intro. to Databases, Object Oriented Software Design

### University of Mumbai – Thadomal Shahani Engineering College

May 2022

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

Mumbai, India

- Selected coursework: 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

**Languages:** JavaScript, Java, Python, C

**Databases:** MySQL, MongoDB

**Platforms:** GitHub, Firebase, Heroku

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

**CI/CD:** GitHub Actions

## EXPERIENCE

### NanoNet Technologies Inc.

Aug 2021 – Nov 2021

Software Intern

- Published two Node.js SDKs on npm for their [OCR](#) and [Image Classification](#) REST APIs.
- Migrated their API specification from Swagger 2.0 to OpenAPI 3.1.0.

## PROJECTS

### Git Graph | [React.js](#) | [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.

### 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](#) | [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 | [HTML](#), [CSS](#), [JS](#), [PHP](#), [MySQL](#), [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 | [HTML](#), [CSS](#), [JS](#), [Asciidoctor Jet](#), [Shell](#), [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.

## COMMUNITY ACTIVITY

### Our Tech Community (OTC) | [ourtech.community](https://ourtech.community)

Jan 2020 – present

Organiser

- Started a Tech-loving open-to-all community with 400+ current members.
- Hosted 600+ hours of weekly [OTC CatchUp](#) sessions involving technical discussions, project showcases and talks.
- Organised an in-person [OTC MeetUp](#) event with 60+ attendees.

### Talks | [talks.harshkapadia.me](https://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.

### GitHub Campus Expert

Oct 2021 – present

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

## EXTRACURRICULAR ACTIVITY

### Hackathons

Sep 2019 – present

- Organised three editions of TSEC CodeCell's 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

Tech Lead

- Co-hosted a workshop on the basics of React.js.