

# Samarth Tambad

[GitHub](#) | [Portfolio](#) | [LinkedIn](#)

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## EDUCATION

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### New York University, NY, NY

Jan 2021 (expected)

Master of Science, Computer Science

GPA: 3.76/4.0

Relevant Coursework: Distributed Systems, Fundamental Algorithms, Operating Systems, Database Systems, Programming Languages, Machine Learning, Computer Vision, Intro to Blockchain

### Ramaiah Institute of Technology, Bangalore, India

May 2014

Bachelor of Engineering, Electronics and Communication

GPA: 8.95/10

Relevant Coursework: Data Structures, Computer Communication Networks

## TECHNICAL SKILLS

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**Programming Languages:** Python, Go, C++, JavaScript, Scala, Java

**Databases:** MySQL, MongoDB

**Tools & Frameworks:** Hyperledger Fabric, Spark, Bash, Git, Node.js, Docker

## PROJECTS

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### LeetCode Timer (Chrome Extension) - [JavaScript, Vue.js], ([repo](#), [chrome web store](#))

Personal Project

- Identified the need by collecting user feedback, designed and built the app, published on chrome web store for easy access

### Distributed Key-value Store, Raft, View-stamp Replication - [Go, Bash], ([repo](#))

Distributed Systems

- Implemented Raft and View-stamp Replication consensus algorithms to maintain a replicated log in multiple servers
- Built a fault-tolerant key-value store (using my Raft implementation) capable of handling concurrent client requests

### Blockchain for Law Enforcement - [Hyperledger Fabric, Go, JavaScript, NodeJS, Vue.js, Bash], ([repo](#))

Intro to Blockchain

- Implemented code to launch a permissioned blockchain network with judiciary and law-enforcement organisations
- Created end-to-end application with user interface, middleware APIs and a blockchain network storing immutable data records

### Analysing programming languages by community characteristics on GitHub and StackOverflow

- [Scala, Spark, Tableau], ([repo](#), [paper](#))

Big Data

- Implemented code to clean and transform huge datasets of GitHub and StackOverflow into relevant metrics
- Visualized metrics using Tableau, performed analysis on metrics to derive insights, published a paper describing the process

### MiniDB - [Python, NumPy, pytest, GitHub Actions], ([repo](#))

Database Systems

- Created a miniature database with order that performs operations on tables such as create, select, join, index, etc
- Reduced development time, increased development efficiency and minimized possibility of bugs by voluntarily investing time to write unit tests and set up automated testing pipeline using Github Actions
- Increased readability and improved efficiency by advocating for object-oriented design and enforcing peer review

### IPL Data Analysis and Visualisation Dashboard - [Python, Pandas, Vue.js], ([demo](#), [repo](#))

Personal Project

- Performed analysis on Kaggle IPL dataset, extracted compelling insights, designed user interface for visualisation

## WORK EXPERIENCE

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### Software Engineer

### Moonraft Innovation Labs

Jun 2014 - Sep 2017

- Facilitated on-time completion despite impossibly close deadline and team member's health issue by volunteering to undertake complete ownership of enabling the team to focus on the rest
- Implemented, tested and installed interactive installations at Experience Centres for various client companies
- Projects:**
  - Social Command Centre** - [JavaScript, D3.js, socket.io, HTML, CSS], ([watch video here](#))
    - Served as a single point of contact for the client for 6 months
  - Vera** - [Python, Scrapy, Arduino, MySQL, Jade, SASS, CoffeeScript, Node.js], ([view website here](#))
    - Integrated hook sensor into the prototype by writing methods to interface with RFID and stress sensors
    - Scraped data, created a database of clothing trends. Facilitated training of a recommendation engine
    - Developed user interface for the prototype with smooth transitions and socket communication
  - Virtual Dressing Room** - [C#, Unity3D, JavaScript, Socket.io]
    - Devised methods to translate movement and joint orientations recorded by Kinect onto a 3D model
    - Created gesture-based user interface to select clothing and view clothes draped virtually on the user