# Prakhar Varshney

Technical Lead at Patient First.AI

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GitHub, LinkedIn

**Skills**

Python

JavaScript

C/C++

Java

Flutter/Dart

React

Node.js

Vue.js

SQL

Git

Amazon AWS

Google Cloud Platform

Microsoft Azure

Analytical Thinking

Problem Solving

## Profile

Innovative Technical Lead and a Software Engineer with a proven track record of developing IT Solutions and applying knowledge of Algorithms and Data structures in a beneficial way. Adept in carefully diagnosing and assessing issues, and offering real viable solutions. Skilled in design, prototyping, and testing. Committed to working as a collaborative and positive team member, striving to utilize my knowledge and expertise for optimal engineering results.

## Employment History

### Technical Lead, Patient First.AI, Boston

May 2022 — Present

- Led the team in designing, developing, and deploying the complete Physician and Patient platforms using **Flutter, React, Node.js, MySQL and AWS Lambda.**
- Built a Secure Server-less Platform which allows multilevel integration with existing EHRs/EMRs.
- Devised an AI-driven Patient Engagement platform that supports two-way interactions via SMS, Email, Phone, and WhatsApp.

### Reasearch Assistant, Questrom School of Business, Boston University

January 2022 — May 2022

- Worked with Prof DK Lee on InnoVAE which converts unstructured patent text into an interpretable, **spatial representation of innovation** (“Innovation Space”).
- Designed and developed a proof of hypothesis by creating a **time series analysis** of the relation between patents and technical Innovations.

### Software Engineer, TutorBin

January 2021 — December 2021

- Ensured the development and on-premise deployments of admin dashboards like the expert portal, and admin portal using **Python 3, Django, Vue JS, Kubernetes, Docker and AWS S3.**
- Built a micro-service with an Event Sourcing mechanism for payments on the client side using **Kafka**.
- Implemented task-queue management for offline synchronization and Invoice management using **Django-Channels, Celery, and pyPDF**.

## Education

**Master of Science in Computer Science, Boston University, Boston**

September 2021 — January 2023

Courses Taken:-

- Analysis of Algorithms, Operating Systems, Data Science with Python, Web Analytics and Data Mining, Computer Networks, Artificial Intelligence, Secure Software Development, Foundations of Machine Learning, and Computer Language Theory.

**Bachelor of Technology in Computer Science and Engineering, Noida Institute of Engineering and Technology, Greater Noida**

September 2016 — May 2020

Courses Taken:-

- Programming in C, Digital Logic Design, Internet of Things, Software Engineering, Cloud Computing, Distributed Systems, and Web Development.

## Published Libraries and Open Source Contributions

- API-CLI - An Open-Source Node.js CLI tool that writes all the boilerplate code and installs all the basic dependencies (Express, body-parser, etc.) which helps to set up REST APIs with just a single command.
- Cliffs-delta - The Cliff's Delta statistic is a non-parametric effect size measure that quantifies the amount of difference between two groups of observations beyond p-values interpretation. This measure can be understood as a useful complementary analysis for the corresponding hypothesis testing.

## Hackathons and Extra Curricular Activities

- Mentored and judged in person at HackMIT 2022, BostonHacks 2022 and TechTogether Boston 2022.
- Led the Boston University Cyber Security Team (TerrierBytes) for NCAE Cybergames 2022.
- Placed 3rd in NCAE Cybergames 2022 NE Conference.
- Won BostonHacks 2021 for creating a Mobile Application for tracking and maintaining a user's mental health.