



Prakhar Varshney

Technical Lead at Patient First.AI

👤 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 at Patient First.AI, Boston

May 2022 — Present

- Led the team in designing, developing, and deploying the [Physician](#) and [Patient](#) EMR platforms using **Flutter, React, Node.js, MySQL and AWS Lambda**. Which are **25% faster and more secure** than existing systems.
- Built a **HIPAA-compliant** server-less Platform that allows seamless multilevel integration with existing EHRs/EMRs.
- Pioneered an **AI-driven Patient Engagement platform** that supports two-way interactions via SMS, Email, Phone, and WhatsApp. Which helps physicians to save on average **3 Hours Every day** on Patient Interaction.

Research Assistant at 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 at TutorBin

January 2021 — December 2021

- Ensured the development and on-premise deployments of admin dashboards like the expert portal, and admin portal using **Python, Django, Vue JS, Kubernetes, Docker and AWS S3**. Which improved the marketing team's throughput by 30%.
- Built a micro-service with an Event Sourcing mechanism for payments on the client side using **Kafka**. Which ensured **65% faster payments** for clients.
- Implemented task-queue management for offline synchronization and Invoice management using **Django-Channels, Celery, and pyPDF**. Which improved the overall platform speed by 18% and reduced the server load and cost by 21%.

Details

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Links

[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

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.
- **Ranked 3rd** in NCAE Cybergames 2022 NE Conference.
- **Won BostonHacks 2021** for creating a Mobile Application for tracking and maintaining a user's mental health.