SHREYANS PATHAK

Schenectady, NY · shreyans.pathak@gmail.com · +1 716-464-8811

in in/shreyans-pathak | ⌥ ishon19 | ⊕ shreyanspathak.me

SUMMARY

Software Engineer with 6+ years of full stack experience designing and optimizing scalable, event-driven systems. Expertise in distributed architectures, microservices, Kafka, AWS CDK, and cloud-native development. Contributor to high-impact open source projects like **PyTorch**, **Flutter**, **Material UI**, **Swift Lang**,**Google Blockly**, **Node.js** and more.

SKILLS & COMPETENCES

Languages:	Java, TypeScript, JavaScript, Go, Python, C++, Solidity.
Frameworks/Tools:	ReactJS, Next.js, AWS CDK, Web sockets, Jest, JUnit.
Databases:	SQL Server, MongoDB, Dynamo DB, PostgreSQL, MySQL, Firebase.

WORK EXPERIENCE

Lynkwell - Software Development Engineer II   **Schenectady, NY**
https://lynkwell.com   Feb 2023 - Present

- **Designed and implemented 10+ scalable, event-driven microservices** for EV charging systems using AWS CDK, Apache Kafka, Auth0 and TypeScript
- **Led a team of 3 developers in building real-time charging update functionality**, resulting in increased customer satisfaction by reducing manual lookups by 40%
- Built and optimized React and React Native apps with TypeScript, Tailwind CSS, Context API and custom hook–based state management—**boosting user engagement by more than 20%**

Vamstar - Full Stack Software Engineer   **Remote**
https://vamstar.io/   Dec 2020 - Aug 2021

- Developed and enhanced the search engine with Elasticsearch, AWS CDK, and GraphQL APIs, **achieving sub-200 ms response times and improving search efficiency by 40%**
- Improved Elasticsearch retrieval by **relevance tuning and boosting, improving data retrieval speed by 20%**
- **Improved code quality by 25%** by implementing automated pre-commit hooks and tests

Newgen Software - Full Stack Software Engineer   **Noida, India**
https://newgensoft.com/   Jul 2016 - May 2020

- Developed cross-platform loan onboarding mobile apps using Apache Cordova and JavaScript, **reaching 10k+ users and digitized manual work to save up to 40% time**
- Built scalable **Java Spring Boot APIs**, integrating **SQL/NoSQL** databases and optimized data upload and retrieval under 400ms

PROJECTS

SyncScribble   **syncscribble.com** ⊕
Real-time collaborative code editor using React, Socket.IO and Hono backend, enabling synchronized editing and cursor tracking for multiple users. Deployed using Heroku and Vercel.

Twitter Search Engine   **GitHub link** ⌥
Search engine to parse and index Twitter data, using ReactJS, MUI, and TypeScript for a responsive front-end, and Python Flask for robust backend operations. Integrated CI/CD with AWS.

EDUCATION

University at Buffalo (GPA: 3.7)   Buffalo, NY
Masters, Computer Science (AI Specialization)   Aug 2021 - Feb 2023

Coursework: Machine Learning, Deep Learning, Reinforcement Learning, Computer Networks, Distributed Systems, Information Retrieval, Advanced Algorithms

Jaypee Institute of Information Technology (GPA: 3.5)   Noida, India
Bachelors, Computer Science   Jul 2012 - May 2016

Coursework: Data Structures, Operating Systems, Database Management Systems

PUBLICATIONS

Co-authored multiple publications: *"IoT in healthcare"*, *"Fog Data Analytics and Healthcare 4.0"*, *"Data Visualization Techniques, Model and Taxonomy"*.