

SHREYANS PATHAK

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SUMMARY

Full-stack Software Engineer with 5+ years of experience in scalable web applications and real-time data processing. Expertise in Node.js, React.js, and AWS. Contributed to high-impact open source projects like **PyTorch**, **Flutter**, **Material UI**, **Swift Language**, **Google Blockly** and more.

SKILLS & COMPETENCES

Languages: TypeScript, JavaScript, Java, Python, C++, Solidity.
Frameworks/Tools: ReactJS, NextJS, AWS CDK, Websockets, Docker.
Databases: SQL Server, MongoDB, DynamoDB, PostgreSQL, MySQL, Firebase.

WORK EXPERIENCE

Lynkwell (<https://lynkwell.com/>) Schenectady, NY
Software Engineer II Feb 2023 - Present

- Developed real-time APIs using **Apache Kafka** and **AWS CDK** and **Auth0**, improving data flow and system reliability for EV charging systems.
- Led the real-time status update functionality, enhancing customer satisfaction and reducing manual lookups. Optimized **Node.js backend APIs**, boosting data processing efficiency and improving uptime by 30%.
- Designed **React.js** and **React Native** frontends with **Tailwind CSS**, with **Redux** and **Context API** and custom hook based state management, increasing user engagement by 20%.

Vamstar (<https://vamstar.io/>) Remote
Full-stack Software Engineer Dec 2020 - Aug 2021

- Built a search engine with **ReactJS**, **AWS**, and **GraphQL**, achieving sub-100 ms response times and improving efficiency by 40%.
- Integrated **Elasticsearch** for 500k+ records, improving data retrieval speed by 30%.
- Improved code quality by 25% through cross-functional collaboration and code reviews.

Newgen Software (<https://newgensoft.com/>) Noida, India
Full-stack Software Engineer July 2016 - May 2020

- Developed cross-platform mobile apps using **Apache Cordova** and **JavaScript**, reaching 10k+ users.
- Built scalable **Java SpringBoot APIs**, integrating **SQL/NoSQL** databases and reducing data retrieval times to under 400 ms.
- Implemented caching, reducing load times by 30% and improving user engagement by 20%.

PROJECTS

SyncScribble syncscribble.com [🌐](#)

Developed a real-time collaborative code editor using React, Socket.IO and Hono backend, enabling synchronized editing and cursor tracking for multiple users. Users can join a playground and collaborate on a problem. Deployed using Heroku and Vercel.

Twitter Search Engine [GitHub link](#) [🌐](#)

Developed a search engine to parse and index Twitter data, using ReactJS, MUI, and TypeScript for a dynamic front-end, and Python Flask for robust backend operations. Integrated CI/CD with AWS CodePipeline, enhancing deployment workflow and reducing manual intervention.

EDUCATION

University at Buffalo, The State University of New York Buffalo, NY
Masters, Computer Science (GPA: 3.7) August 2021 - Feb 2023

Relevant Coursework: Machine Learning, Deep Learning, Distributed Systems, Advanced Algorithms

Jaypee Institute of Information Technology Noida, India
B.Tech, Computer Science (AI Specialization) (GPA: 3.5) July 2012 - May 2016

Relevant 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*".