

# SHEKHAR KAUSAL

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Software Developer with 4+ years of experience in creating and scaling web applications and services. Skilled in full-stack development, utilizing front-end frameworks like React and Angular, alongside back-end technologies including Node.js, Python, and Java. Proficient in Agile methodologies, database management, and improving code quality across diverse languages and tools. Excited to leverage my expertise in a Software Engineer role.

## EDUCATION

3.70/4.0 **Master of Science in Computer Science**, *Illinois Institute of Technology* | Chicago, IL 2022 - 2024

3.74/4.0 **Bachelor of Computer Applications**, *Bharati Vidyapeeth* | Pune, MH 2017 - 2020

**Courses:** Cloud Computing, Mobile Application Development, Big Data Technologies, Enterprise Web Applications, Database Organization, Object Oriented Programming, Data structures and Algorithms, Statistics.

**Achievements:** Winner @ **Intelligencia Competition** (IIT - Gems, BVDU) | Two time Finalists @ Techno Competition (IIT - Gems, BVDU)

## SKILLS

**Programming** Java, C#, C / C++, Bash, **JavaScript**, PHP, Swift, Kotlin, **Python**

**Cloud** GCP, Chameleon, **AWS Certified Cloud Practitioner** (Route53, EC2, IAM, RDS, VPC, Lambda, CloudWatch, S3).

**Frameworks** **AngularJS**, HTML, Spring MVC, Spring Boot, JSP, **Servlets**, Hibernate, **ReactJS**, JSON, **NodeJS**.

**Database** **MySQL**, SQL Server, Oracle DB, **PostgreSQL**, NoSQL, Apache Hadoop, Spark, Hive, **MongoDB**.

**Tools** Kibana, Dynatrace, VirtualBox, **Git**, **GitHub**, UNIX/LINUX, **Android Studio**, Postman, **Jenkins**, Kubernetes, Docker

## EXPERIENCE

**Amdocs**, *Software Developer* | Pune, MH | 3+ years

June 2019 - July 2022

- Implemented REST web APIs and developed multiple microservices using the Java Spring Boot Framework, resulting in a **25%** increase in system scalability and a **30%** reduction in maintenance time.
- Optimized and improved existing complex systems, enhancing their performance and reliability, which led to an **80%** increase in productivity.
- Improved code quality and testing coverage transitioning to Amdocs APIs, leading to a **30%** increase in orders and maintaining a robust **99%** website uptime.
- Designed and implemented **CI/CD** pipelines to deploy containerized applications using **Jenkins**, Python, Docker, and **Kubernetes**, reducing manual intervention by **80%**.
- Designed and developed databases from scratch using SQL, managed various database components, and optimized data integrity and retrieval processes, resulting in a **30%** increase in query performance and **20%** reduction in data retrieval time.
- Collaborated with an Agile team across **4+** application domains of Vodafone Italy.
- Received **Employee of the Month (Dec '21)** for outstanding performance and effective client management.

**Illinois Institute of Technology**, *Teaching Assistant* | Chicago, IL | 1+ year

January 2023 - May 2024

- Improved instructional delivery and student comprehension for **CS553** - Cloud Computing, **CS425** - Database Organization and **CS201**, resulting in a 20% increase in student performance and engagement.

**Yiddish Arts and Academics Association of North America**, *Application Developer* | Remote

July 2024 - Present

- Designed and implemented a responsive UI using Flutter, leading to a **30%** increase in user engagement and a **20%** boost in session duration.
- Utilized Firebase for real-time data storage, authentication, and cloud messaging, achieving **99.9%** uptime.
- Deployed Firebase Cloud Functions to handle backend logic, automating tasks and reducing server costs by **15%**, while improving app scalability.
- Integrated Firebase Analytics to monitor user behavior, leading to a **25%** improvement in user retention through data-driven updates.

## ACADEMIC PROJECTS

### Health Plus

Java | Apache Tomcat | Servlets | JSP | MySQL | Google APIs | HTML5 | MongoDB

- Developed a web application leveraging Google Places API and Google Geolocation API to showcase health-related institutions based on users' current locations.
- Enabled users to establish personalized health profiles and seamlessly schedule appointments with hospitals, clinics, and other medical facilities.
- Integrated an autocomplete search feature to facilitate convenient exploration of nearby establishments.
- Facilitated access to Google ratings and reviews, allowing users to contribute their own feedback, stored in MongoDB.

### Mobile Application Development

Java | Android Studio | XML | Firebase | Google API's | Retrofit | Kotlin

- Created (6) Android applications with 8+ activity pages: News Aggregator for (10+) broadcasting channels, categorized for business, sports, Weather App, Civil Advocacy for information on political candidates, Notes App, etc.

### Smart Homes

React | NodeJS | MongoDB | MySQL

- Developed an e-commerce platform for smart home appliances utilizing React for frontend and NodeJS for backend.
- Implemented features allowing users to make online purchases with the choice of either delivery or in-store pickup.
- Enabled users to both write and peruse reviews for appliances, with the feedback securely stored in MongoDB.
- Utilized MySQL to manage and store transactions, user information, store details, order specifics, and other relevant data.