

# Sushen Kumar

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## PROFESSIONAL HISTORY

### University of Illinois at Chicago - Chicago, IL

#### Graduate Assistantship – Database Developer

May 2021 - Present

- Architected end-to-end pipelines for clinical research data with REDCap (Survey Creator), for the University of Chicago, in association with the University of Illinois at Chicago.
- Developed APIs in Java for authentication and anonymization of clinical data for privacy measures.
- Created and maintained multiple client-facing surveys and backend databases on Amazon RDS for sensitive, unstructured survey responses.
- Automated the report-generation process from anonymized user records which reduced the time spent by case managers by 50% per week.

### Chefling, Inc. - Bengaluru, India

#### Software Engineer

Oct 2019 - Jan 2021

- Spearheaded backend microservice infrastructure for Chefling's applications using Docker, Kubernetes, and Amazon Web Services.
- Designed and developed microservices for matching, filtering, and recommendations for unstructured recipe data.
- Utilized Elasticsearch and Kibana to serve kitchen recipes on the application.
- Architected CI/CD pipelines for Backend, Android and iOS builds with Jenkins.
- Integrated SonarCube for end-to-end test coverage.
- Developed Glark: open-source Grafana to LarkSuite communicator for real-time cluster scaling reports/internal monitoring.

### Statosphere Technology Ltd. - Bengaluru, India

#### Co-Founder & Software Engineer

Aug 2018 - Oct 2019

- Architected a platform for soccer academies and clubs to understand player performance on the soccer field, through tracking algorithms based on the video feed.
- Lead a cross-domain team of 4 to develop Scout: Platform for soccer academies to track the progress of students.
- Collaborated with soccer clubs in Bangalore for post-game analytics.

## EDUCATION AND CERTIFICATIONS

- **University of Illinois, Chicago, IL**  
Master of Science in Computer Science  
Coursework: *Blockchain, Concurrent Computing Systems, Natural Language Processing, Algorithms, Advanced Natural Language Processing, Advanced Software Engineering*

Exp Graduation: April 2022

GPA: 3.83

- **Visvesvaraya Technological University, India**  
Bachelor of Engineering in Computer Science and Engineering

Graduation: Jul 2019

GPA: 3.5

## PROJECTS

- **actorSecrets**  
Distributed, resilient, actor-based application generator with AKKA in Java. Aug 2021 - Dec 2021
- **rateMyCourse**  
Course evaluator plus peer-review scraper, with vader/textblob sentiment analysis in Python. Aug 2021 - Dec 2021
- **getThis**  
Scalable, content-management platform, based on the pub-sub model with LMAX Disruptor in Java. Jan 2021 - April 2021

## HACKATHONS

- Winner at DELL INDIA Futurist - Application Development Challenge, India, 2019 (Nation-wide)
- Winner at MMA Vodafone Ideathon - Bangalore, 2018
- Runner up at IESA Makeathon - India, 2018 (Nation-wide)
- Winner at ValuePitch Hackathon, Bangalore, 2017 (State-wide)

## TECHNICAL SKILLS

- **Programming:** Go, Java, JavaScript, C/C++, Python, HTML/CSS
- **Technologies / Tools:** AKKA, AWS, GCP, MySQL, Postgres, git, Docker, Kubernetes, Redis, React, SparkJava, Elasticsearch, Linux, Android, nginx, Jenkins, SonarCube, Distributed ledgers
- **Other:** Knowledge and experience with SDLC, DevOps, Agile software development

## INTERESTS

Professional mentoring, Music Production, Parliamentary Debate, Grade IV - Indian Classical Instruments & Singing.