

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.
- Strategised technical architecture for the ROMI Project, focused on reducing opioid mortality among individuals in the Illinois area.
- 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 - Backend and DevOps

Oct 2019 – Jan 2021

- Spearheaded backend microservice infrastructure for Chefling's applications using Docker, Kubernetes, and WebServices, from a previously existing monolith.
- Designed and developed microservices for matching, filtering, and recommendations for unstructured recipe data.
- Utilized Elasticsearch and Kibana for serving kitchen recipes on the application.
- Developed CI/CD pipelines for Backend, Android and iOS builds with Jenkins, integrated SonarCube for end-to-end test coverage.
- Lead the backend development for [Chefling-Pantrychic](#) - Architected the Pantrychic microservice for dispensing ingredients from canisters through Chefling's application.
- Developed [Glark](#) - A Grafana to LarkSuite communicator, for real-time reports on production cluster's pods and autoscaling requirements.

Statosphere Technology Ltd, Bengaluru, India

Co-Founder & Software Engineer

Aug 2018 – Oct 2019

- Architected a platform for soccer academies and clubs to better understand player performance on the 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.
- Worked with soccer clubs in Bangalore for post-game analytics.

EDUCATION AND CERTIFICATIONS

- **University of Illinois, Chicago, IL**
Master of Science in Computer Science
Coursework: Algorithms, Concurrent Systems, Android, Natural Language Processing, Blockchain, Software Engineering
- **Visvesvaraya Technological University, India**
Bachelor of Engineering in Computer Science and Engineering

Exp Graduation: May 2022

GPA: 4.0

Graduation: Jul 2019

GPA: 3.5

HACKATHONS AND PROJECTS

- Winner at [DELL INDIA Futurist](#) - Application Development Challenge, India, 2019
- Winner at MMA Vodafone Ideathon - Bangalore, 2018
- Runner's up at IESA Makeathon - Bangalore, 2018
- Winner at ValuePitch Hackathon, Bangalore, 2017

TECHNICAL SKILLS

- **Programming:** Go, Java, JavaScript, C, Python, Scala, HTML/CSS
- **Technologies / Tools:** AKKA (Java/Scala), AWS, GCP, MySQL, AJAX, git, Docker, Kubernetes, Redis, React, Redux, SparkJava, Elasticsearch, Linux, Android, Kafka, React Native, nginx
- **Other:** Knowledge and experience with SDLC, DevOps, Agile software development, RESTful services

PUBLICATIONS

- [An Effective Approach to Discern Leaders in Wireless Sensor Networks](#), December 2018
DOI: 10.9790/0661-2006031420

INTERESTS

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