

AMEY KASBE

Chicago, IL - 60612 | 872-218-4073 | amey.kasbe@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Master of Science in Computer Science | *University of Illinois at Chicago, Chicago, IL* Aug 21 – May 23
Relevant Coursework: Engineering Distributed Objects for Cloud Computing, Database Systems
Bachelor of Technology | *GGPA: 8.15/10* | *Maulana Azad National Institute of Technology, Bhopal, India* Jul 14 – Apr 18
Position of responsibility: Vice-Chairman at IEEE MANIT Student Branch. Conducted IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCECS'18)

SKILLS

Languages, Databases: Python, JavaScript, Scala, HTML5, CSS | SQL, MySQL, Splunk SPL
Frameworks: Django, Django REST Framework | Apache Hadoop | Cloudsim Plus | Bootstrap, Materialize
Tools, Technologies, Methodologies, OS: Splunk | Amazon Web Services | Git, GitHub | NumPy, Pandas, Matplotlib, Seaborn | Logback, ScalaTest | Jenkins | Jupyter Notebook | Agile, Scrum | Linux, Windows, macOS

PROFESSIONAL EXPERIENCE

College of Nursing, University of Illinois at Chicago – Graduate Research Assistant Aug 2021 to Present

- Designed, developed, and deployed a web application in **Django** with **responsive web design** using **Materialize CSS** to record health assessments for an intervention study of patients with heart failure risk and provide strategies based on the responses.
- Redesigned hosting strategies according to the cloud resource requirements **reducing the annual server costs by 92%**.

Augment Technologies - Founder and Business Owner May 2020 to Jul 2021

- Conceptualized and developed a school management application "Athena" using **Django** with **MVT** architectural pattern to manage administrative tasks, monitor daily activities, and manage resources of schools with interactive dashboards **reducing weekly manual hours by 10 hours per instructor**.
- Utilized **Materialize CSS** for **responsive web design** and **Django-PWA** to create a **Progressive Web Application (PWA)** to provide users experience of a native application.
- Leveraged **Django Tenant Schemas** to achieve **multi-tenancy** to serve multiple clients with a shared pool of cloud resources **reducing the annual cloud service cost by 35%**.
- Strategically developed a **business model** and participated in all facets of business development.
- Communicated with the schools to identify their challenges and customized the product to meet their requirements.
- Identified and **nurtured clients** via cold calling, Business to Business.
- Planned and oversaw all organizational operations, key policies, and objectives to maximize the team's productivity and return on investment. Recruited and trained all new personnel to ensure the fulfilment of the firm's vision and goals.

Wipro Limited - Project Engineer (Contingent Employee at Cisco Systems) Aug 2018 – May 2020

- Designed and developed a **log-reporting application** using **Django** and **JavaScript** to **reduce the expenditure** on third party applications by **80%**.
- Worked on legacy log reporting application on **Splunk** to **visualize** the big data according to the business needs using **Splunk SPL queries**. Gained exposure in all phases of the **SDLC – Agile**.

Wipro Limited – Intern May 2017 – Jul 2017

- Automated** build, test, & deployment parts of a software development process using **Jenkins** and **Python**, facilitating **continuous integration** and **continuous delivery**, reducing human intervention and **reducing overall time of the task by 90%**.

Universidad Carlos III de Madrid – Intern Jun 2018 – Jul 2018

- Introduced **machine learning** in the **5G massive MIMO** research by proposing applications in beam-selection techniques on vehicle-to-infrastructure mmWave communication on datasets generated by a **ray-tracing simulator** and a **traffic simulator**.

PROJECTS

Point Profile (*Django, Python, Chart.js, GitHub REST API, Materialize CSS*)
Developed and deployed a **Django** based web application to analyze GitHub profiles and repository statistics with the help of **GitHub REST API** and utilized **Chart.js** for **data visualization**.

MapReduce on Log Data (*Apache Hadoop, Scala, AWS EMR, Logback, ScalaTest, Typsafe Config*)
Leveraged **Apache Hadoop** and **Scala** to parse and analyze randomly generated log files with 1 million log events that represent **big data** using the **MapReduce framework**, and deployed on an **AWS Elastic Map Reduce** cluster.
Performed analytics to show the distribution of different types of log messages with string instances of a designated regex pattern.

Cloud Simulator (*Scala, CloudSim Plus, Logback, ScalaTest, Typsafe Config*)
Designed and implemented a cloud simulator using **CloudSim Plus framework** for evaluating executions of applications in **cloud datacenters** with different characteristics and deployment models.
Simulated **IaaS, PaaS and SaaS** architecture models using different policies and constraints for VM allocation, scheduling & execution.

Fact Football (*Django, Django REST Framework, Python*)
Developed and deployed a **REST API** using **Django Rest Framework** to share football facts, exhibiting **GET, POST and DELETE HTTP** methods. Showcased getting a random fact, listing all facts, updating or deleting a fact on the provided endpoints.