AMEY KASBE

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EDUCATION

University of Illinois at Chicago, Chicago, IL
Master of Science in Computer Science   *Aug 2021 – May 2023*
Relevant Coursework: Engineering Distributed Objects for Cloud Computing, Database Systems

Maulana Azad National Institute of Technology, Bhopal, India   GGPA: 8.15/10
Bachelor of Technology in Electronics and Communication Engineering   *Jul 2014 – Apr 2018*

SKILLS

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

PROFESSIONAL EXPERIENCE

College of Nursing, University of Illinois at Chicago – Graduate Research Assistant   *Aug 2021 to Present*
- Developing a **Django** based web application with responsive web design using **Materialize CSS** for a web-based self-care intervention study to record health assessment of patients with heart failure risks and provide strategies based on responses.

Augment Technologies - Founder and Business Owner   *May 2020 to Jul 2021*
- Founded a software firm that specializes in assisting schools by providing digital solutions and products.
- Conceptualized and developed a school management application "Athena". Athena provides interactive dashboards to manage administrative tasks, monitor daily activities, and handle resources.
- Developed 'Athena' using **Django** web framework with **MVT** architectural pattern, Materialize CSS for **responsive web design**, Django-PWA to create a **Progressive Web Application (PWA)** and Django-Tenants to achieve **multi-tenancy**. Deployed on **PythonAnywhere** web hosting service integrated with **AWS S3** for cloud storage.
- 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 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*
- Acted as a solo project executor, designed, and developed a **log-reporting application** from the onset with technologies like **Django, Python, JavaScript, and Bootstrap** to reduce the expenditure on the legacy software by **30%**.
- Worked on legacy log reporting application on **Splunk**. Created the layout using HTML5, CSS, and JavaScript, **visualized** the data according to the business needs using **Splunk SPL queries**.
- Gained exposure in all phases of the System Development Life Cycle (SDLC) – **Agile**.

Wipro Limited – Intern   *May 2017 – Jul 2017*
- **Automated** deployment, execution, testing, and notification of results to respective developers using **Python** and **Jenkins**, thereby reducing the processing time as well as human efforts.

Universidad Carlos III de Madrid – Intern   *Jun 2018 – Aug 2018*

- Introduced **machine learning** in the **5G massive MIMO** research by investigating the beam-selection techniques on vehicle-to-infrastructure **millimeter-wave** communication.

PROJECTS

Cloud Simulator *(Scala, CloudSim Plus, Logback, ScalaTest, Typsafe Config)*
Developed a cloud simulator for evaluating executions of applications in **cloud datacenters** using **CloudSim Plus framework** with different characteristics and deployment models. Conceptualized 3 datacenters on a mix of **IaaS, PaaS and SaaS** architecture models using different policies and constraints for VM allocation, scheduling and execution.

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

Fact Football *(Django, Django REST Framework, Python and more)*
Developed and deployed a **REST API** developed using Django Rest Framework to share football facts. Get a random fact, list all facts, update or delete a fact with the support of **GET, POST and DELETE HTTP** methods, which can be performed on the provided endpoints.

Credit Card Fraud Detection *(Python, Machine Learning)*
Examined **data preprocessing** techniques and performance of six different **predictive models** in Python to credit card fraud detection problem on an imbalanced dataset.

POSITIONS OF RESPONSIBIILTY

- Vice-Chairman at IEEE MANIT Student Branch (April 2017- March 2018)
- Conducted IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS'16)
- Member of Rotaract Club (Social Service Club) of MANIT (August 2015- March 2018)
- Organized Aarambh, a social initiative to enlighten and practically teach underprivileged school kids the concepts of science and made them aware of the potential career choices and the processes involved, (2015, 2016, 2017)