AMEY KASBE

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EDUCATION

University of Illinois at Chicago, Chicago, IL
Master of Science in Computer Science   *Aug 2021 – May 2023*

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: Python, Scala, JavaScript, HTML5, CSS, SQL
Frameworks: Django, Django REST Framework, Bootstrap, Materialize
Tools/OS: Splunk, Git, GitHub, NumPy, Pandas, Matplotlib, Seaborn, Jenkins, Jupyter Notebook, Windows, MacOS, Linux

PROFESSIONAL EXPERIENCE

College of Nursing, University of Illinois at Chicago – Graduate Research Assistant   *Aug 2021 to Present*
- Developing a Django based web application to record health assessment of patients with heart failure risks with responsive web design using Materialize CSS.

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.
- Strategically developed a business model and participated in all facets of business development.
- Communicate with the schools to identify their challenges and customize the product to meet their requirements.
- Identified and nurtured clients via cold calling, Business to Business.
- Plan and oversee all organizational operations, key policies, and objectives to maximize the team's productivity and return on investment.
- Recruit and train 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 log-reporting application from the onset with technologies like Django, Python, JavaScript, and Bootstrap to reduce the expenditure on the legacy software by more than 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 SPL queries, and advanced XML on Splunk.
- Mentored and guided interns and team members and gained exposure in all phases of the System Development Life Cycle (SDLC) – Agile.

Universidad Carlos III de Madrid – Intern   *Aug 2018 – May 2020*
- Introduced machine learning in the 5G massive MIMO research by investigating the beam-selection techniques on vehicle-to-infrastructure millimeter-wave communication.

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.

PROJECTS

Athena *(Django, Python, PostgreSQL, PWA, Django-Tenants, Materialize CSS, Ajax and more)*
Developed a web application to assist schools in parent-teacher communication and school administration using **Django** as a web framework with **MVC** architectural pattern, Materialize CSS for **responsive web design**, Django-PWA to create a **progressive web application** and Django-Tenants to achieve **multi-tenancy**.

Cloud Simulator *(Scala, CloudSim Plus, Typsafe Config, Logback, Scalatest)*
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 and execution.

Point Profile *(Django, Python, Chart.js, GitHub REST API, Materialize CSS and more)*
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)*
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.

LEADERSHIP EXPERIENCE

- 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)