

## EDUCATION

### Master of Science (M.S.) in Computer Science | GPA: 3.89 / 4.0

Expected May 2021

Arizona State University | Tempe, Arizona, USA

- **Relevant Courses:** Cloud Computing, Data Processing at Scale, Semantic Web & Data Mining, Mobile Computing, Software Security, AI, NLP

### Bachelor of Technology (B.Tech.) in Computer Science | GPA: 8.93 / 10.0

May 2019

BML Munjal University | Gurgaon, Haryana, India

- **Relevant Courses:** Distributed Systems, Big Data Analytics, Information Retrieval, Networks, Computer Vision, Human-Computer Interaction

## TECHNICAL SKILLS

**Programming & DB:** Python, C#, Java, Javascript, C / C++, Swift, Shell / Bash, Matlab, PostgreSQL, MySQL, MongoDB  
**Front/Backend Dev:** Node.js, Vue.js, Express.js, .NET, HTML, CSS, PHP, jQuery, Go, JSON, WebSockets, Django, Flask  
**Tools:** Git, Docker, Kubernetes, AWS, GCP, Hadoop, Apache Spark, Linux, Xcode, Android Studio

## EXPERIENCE

SSEBE, Arizona State University | Tempe, Arizona, USA

Software Developer

01/2021 - Present

- Converting Matlab code base into **C#**; Developing an **ASP.NET webApp** while incorporating complex algorithms from scholars

Advinow Medical Ltd. | Scottsdale, Arizona, USA

Software Engineering Intern

06/2020 - 08/2020

- Developed a tool that extracts the symptoms from the articles; used cutting-edge **BERT Pretrained models** and **lexical analysis**
- Achieved an **improvement in accuracy over 30%** on the mapping of symptoms to diseases using hybrid approaches
- Built and integrated **8 extensible Python modules** that facilitated autonomous extraction, annotation, and mapping
- Created **microservices, data pipelines** that collectively assisted doctors to **increase** the annotation pace **from days to hours**
- Used **GitLab** for **Continuous Integration / Continuous Deployment** of the software into scalable AWS EC2 instances

LTRC Lab, IIIT Hyderabad | Hyderabad, Telangana, India

Data Science Intern

01/2019 - 05/2019

- Conducted research and published a paper under the title **"Anaphora Resolution for Telugu Dialogues"**
- Leveraged neural networks and achieved a **state of art for pronominal anaphora resolution** in Telugu dialogue systems
- Analyzed the trade-off among the features at the **semantic and morphological level**; made a **data-driven selection of features**
- Developed and deployed an innovative web app that annotates the anaphora in **up to 80 languages** of human dialogues

Tech Mahindra | Bangalore, Karnataka, India

Software Engineering Intern

06/2017 - 07/2017

- Developed a scalable **full-stack web dashboard application**, for incident tracking using **Vue.JS, Node.JS, MongoDB**
- Built an **Android app** that actively notified the employers; impacted latest incidents **by increasing the view rate to 100%**
- Designed and implemented a **RESTful API**; used to fetch data to populate the **D3.js** charts in both web and android apps

## ACADEMIC PROJECTS

**Deep Learning Image Recognition | Technologies Used:** AWS SQS, AWS S3, AWS EC2, Boto3, AWS JS SDK Spring 2021

- Developed a **cloud application** using AWS laas services, where Node JS web-tier instance sends requests to SQS & stores in S3
- Load balancing is done based on the Queue size, **auto scaling** app-tier instances that listens for the requests in input Queue

**Geospatial Data Processing | Technologies Used:** SparkSQL, Scala, Distributed storage

Fall 2020

- Performed **distributed computing** that runs spatial queries on large **GIS databases** containing the real-time locations of users
- Developed SQL queries with points, lines, and polygons that apply within, contains, hot zone and hot cell analysis on locations

**Covid-19 Contact Tracer | Technologies Used:** iOS, Swift, Xcode, Python, Flask

Fall 2020

- Developed Covid-19 tracing iOS app; notifies the users of the potential risk of virus based on their contact & movement history
- Innovatively computed heart and respiration vitals using the time series data from core graphic (camera) & accelerometer

**Glucose & Insulin Time Series Analysis | Technologies Used:** Python, Pandas, Numpy, Scikit-learn, Tsfresh Spring 2020

- Extracted Features from **large time-series data** collected from subjects using a continuous glucose monitor sensor
- Used those features to estimate the mealtime (**95% accuracy**) & amount to artificially pump small bursts of insulin to balance

## LEADERSHIP EXPERIENCE

Graduate Services Assistant | CIDSE, Arizona State University | Tempe, Arizona, USA

08/2019 - 01/2021

- Graduate TA/grader for CSE 335 (**iOS App Development**) and CSE 205 (**Objective oriented programming and data structures**)
- Managed groups; guided and supported **over 250 students** by conducting office hours, providing feedback and solutions