SETU DURGESH VINAY ANNAM

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EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE   May 2021
ARIZONA STATE UNIVERSITY | Tempe, Arizona, USA   **GPA: 4.11/4**
BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE   May 2019
BML MUNJAL UNIVERSITY | Gurgaon, Haryana, India   **GPA: 8.93/10**
● 100% Scholarship on Tuition and Living.

TECHNICAL KNOWLEDGE

- **Programming Languages:**   Python, Java, C, C++, Javascript, Swift, Bash, Clingo (ASP)
- **Database:**   MySQL, SQLite, MongoDB, Firestore
- **Web Frontend Dev:**   VueJS, ReactJS, Firebase, HTML5, CSS, JSON, AJAX, Jquery
- **Web Backend Dev:**   Node JS, Django, PHP, REST, SOAP, MVC
- **IOS / Android Dev:**   Xcode, Android Studio
- **ML / DL / NLP / CV / BD / KRR:**   Numpy, Scikit, Keras, NLTK, Spacy, Skimage, Matplotlib, Tensorflow, Hadoop, Gensim, Protégé
- **Miscellaneous:**   Data Structures, Algorithms, Blockchain, Software Security, Sketch, Arduino, XML

WORK EXPERIENCE

GRADUATE SERVICE ASSISTANT | ARIZONA STATE UNIVERSITY   August 2019 - December 2019
Tempe, Arizona, USA
● Working part-time as a Grader / TA for CSE 335: Principles of Mobile Application Dev (iOS).

INTERNSHIP EXPERIENCE

NLP RESEARCH INTERN | IIIT HYDERABAD   January 2019 - May 2019
Hyderabad, Telangana, India
● Conducted research under Professor Radhika Mamidi by the title "**Anaphora Resolution for Telugu Dialogues**".
● Applied deep learning and achieved a state of the art for pronominal anaphora resolution in Telugu dialogue systems.
● Paper submitted to the 6th International Conference on Natural Language Processing (ICON-2019). | **Under Review**
SOFTWARE DEVELOPER | TECH MAHINDRA   June 2017 - July 2017
Bangalore, Karnataka, India
● Developed a full stack web and android visualization applications to track the issues occurred in the company's core software.

ACHIEVEMENTS

FINAL CTF | SOFTWARE SECURITY | ASU, TEMPE, ARIZONA, USA   December 2019
● Secured 3rd position in the final 'Capture the Flag' event conducted at ASU under the course Software Security (CSE545).
SYSTEM FOR REDUCING DATA DUPLICATION | PATENT | GURGAON, HARYANA, INDIA   May 2019
OTHER INVENTORS : Pagidi Arunswara Reddy, Tamanna Sehgal

HACKBMU | HACKATHON | GURGAON, HARYANA, INDIA   April 2018
TECHNOLOGIES USED : Node JS, Computer Vision, CNN
● Secured 2nd position for building an app that labels the American Sign Language hand gestures using CNN.
● The labels are used to generate dialogues, translated to native languages and converted to speech.

ACM - ICPC 2017 | AMRITAPURI, KERALA, INDIA   December 2017
● Participated in ACM-ICPC Asia Amritapuri Onsite Regionals 2017.

TEDxBMU | HEAD WEB DESIGNER | GURGAON, HARYANA, INDIA   November 2016 - January 2017
● Led a team of web designers and created a spectacular website for TedX event conducted at the university.

PROJECTS

INSURANCE REFEREE ASSIGNMENT | KNOWLEDGE REPRESENTATION AND REASONING September 2019 - Dec 2019

TECHNOLOGIES USED: Clingo, Answer Set Programming (ASP)
● Developed a clingo program that assigns referee to a task based on some weak and hard constraints set by the company.
● Used minimization technique to optimize the total payments made by the company given the preferences of the referees.
● Explored several aspects of ASP and declarative programming in tacking constraint related problems with little planning.

COREFERENCE ANNOTATOR | NLP TOOL   February 2019 - June 2019

TECHNOLOGIES USED: Python, Tensorflow, Keras, Gensim, Dialogue Systems, Node Js, Vuetify, Vue JS
● Developed software that annotates the anaphora of a noun phrase in the human spoken dialogues.
● Achieved a state of the art working annotator and decoder for the Telugu language.
● Used Gensim to generate word embedding and appended extra features as our research suggested.

CODE REEVE | ONLINE JUDGE SOFTWARE   August 2018 - November 2018

TECHNOLOGIES USED: Node Js, MongoDB, MOSS
● Developed software which automatically judges the coding assignments based on the test cases provided.
● Analyzed potential exploits in the existing systems and rectified them in the application.
● Used MOSS API, which calculates the similarity of the code to detect plagiarism.

CHANDLER CHATBOT | NLP, AI   July 2018 - Present

TECHNOLOGIES USED: CNN, LSTM
● Working on a chatbot that mimics Chandler, a famous television fictional character from Friends, who was sarcastic.
● Analyzing several styles of response and reasoning in humans and training AI.

BMU BLOCKCHAIN | CRYPTOCURRENCY   January 2018 - April 2018
● Developed a real-time blockchain application which has a server module for transactions and a CLI for the miners.
● Made the blocks secured by the decentralization of transactions using peer to peer networks and proof of work.