ABHILASH VALLAMKONDA

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EDUCATION

Texas A&M University, College Station, TX — August 2019
Master of Science, Computer Science — GPA : 3.9/4.0
Relevant Coursework : Machine Learning, Software Engineering, Analysis of Algorithms, Database Systems, Information Retrieval, Parallel Computing (audit), Distributed Systems (online)
Masters Thesis : Model Attack on Convolutional Neural Networks (link)

National Institute of Technology, Karnataka, India — May 2014
Bachelor of Technology, Electrical Engineering — GPA : 8.5/10.0

LANGUAGES AND TECHNOLOGIES

(Proficient in) Python, Tensorflow, Linux **(Familiar with)** C++, C, Django, Javascript, SQL, HTML/CSS, Matlab

WORK EXPERIENCE

Information Innovation Lab (headed by Dr. Anxiao Jiang)
Student Researcher — June 2018 - July 2019

- We investigated the threat of hackers maliciously modifying the parameters of machine learning models deployed in mobile platforms such as self-driving cars and mobile phones.
  Utilized: Python, Tensorflow, Deep Learning, Image Classification, Numpy, Matplotlib, Scikit-learn, t-SNE

Robert Bosch Engineering and Business Solutions Ltd, Bangalore
Software Engineer (Embedded Systems) — July 2014 - July 2016

- Developed software to drive the control and amplifier circuit for the lambda sensors used in automobiles.
  Utilized: C, Object Oriented Design, System Testing, Unit Testing

University Writing Center — August 2018 - August 2019

- Helped students communicate their ideas clearly and concisely in their writing assignments and presentations.

PROJECTS

Personal Website : https://vorzawk.github.io/ — **Github : https://github.com/vorzawk**

Network Routing Protocol to find the optimal path (github link)
The Dijkstra's shortest path and Kruskal's minimum spanning tree algorithms were modified to find the maximum bandwidth path between any two nodes in the network.
Utilized: C++, STL, Dijkstra's algorithm, Kruskal's algorithm, Max-Heap, Object Oriented Design

Ask Me Anything (github link)
Designed a deep learning model which could answer questions based on a passage of text. Our design was based on state-of-the-art research in question answering.
Utilized: Tensorflow, Python, Recurrent Neural Networks, Natural Language Processing, NLTK

Interactive Story Writer (github link)
Implemented a chatbot which helped users write stories. It analyzed the user input looking for certain predefined keywords to offer a suggestion for continuing the story.
Utilized: Javascript, Natural Language Processing, Keyword Search

CrowdMentor (github link)
Built a crowdsourcing website to enable collection of data for research on improving workers' performance.
Utilized: Python, Django, SQL, System Testing, Unit Testing, Behave, Splinter, Cloud Deployment

Notes Anonymizer (github link)
Developed a program to anonymize session notes so that they could be analyzed without compromising the students' identities.
Utilized: Python, NLTK, Regular Expressions, Data Preparation

EXTRACURRICULAR ACTIVITIES

- I am a member of the Aggie Book Club and Texas Runners Against Cancer, a running organization.
- Participated in TamuHack 2018 and 2019.