Krishna Chittur

kchittur@utexas.edu
(713) 714-4537
https://chittur.dev

3200 Duval St Apt 101
Austin TX 78705
U.S. Citizen

EDUCATION

- **University of Texas at Austin** — Aug 2016 - May 2020
  Current GPA: 3.97
  - **BS Computer Science, Turing Scholars**
  - **BS Mathematics**

EXPERIENCE

- **Languages**: Python, Java, C++11, Rust, C, Golang

- **Other skills**: bash, git, regex, Python data/ML (PyTorch, numpy, spaCy, sklearn, and other libraries.)

PROJECTS

- **SparkCognition Inc. (Darwin team)** — Summer 2019
  Data Science Internship at AI Firm in Austin, TX — sparkcognition.com
  - **Hyperparameter Optimization** Researched and applied cutting-edge hyperparameter optimization techniques such as Hyperband in the Darwin AutoML pipeline.
  - **Overhauled Testing System** Refactored testing and benching system to work with new data ingestion pipeline to greatly increase data scientist productivity.

- **SparkCognition Inc. (DeepNLP team)** — Summer 2018
  Software Engineering Internship at AI Firm in Austin, TX — sparkcognition.com
  - **Information Retrieval** Designed and implemented framework and pipeline for flexibly indexing and searching specialized corpora of natural language text, e.g. technical manuals.
  - **Clustering** Researched and tested different methodologies for real-time search result clustering.

- **NLP Research** — Spring 2018 - Spring 2019
  Work with Dr. Bruce Porter, Professor, UT CS
  - **Machine Reading** Analyzed systems for extracting information from unstructured text to populate knowledge bases. These included UIMA, IKE, and spaCy-based pipelines.

- **GadgetCoin** — Fall 2018
  Concurrency Honors independent final project
  - **Modified Ethereum Implementation** Developed modified implementation of the Ethereum specification in Rust with Turing-complete virtual machine implicit in blockchain transaction processing. Used standard ECDSA cryptographic verification and SHA-256 hashes for block nonce computation.

- **AutoHydra** — Spring 2019
  Ethical Hacking independent final project
  - **Automated Adaptive Attacks** Developed flexible tool to scan for authentication endpoints (SSH, LDAP, Postgres, etc.) on a network and crack credentials. Leverages credential re-use.

OTHER

- Perfect 170/170/6.0 GRE.

- Ajit B. Ramchandani Endowed Presidential Scholarship (2016).

- UT College Scholar (2018, 2019).

- Valedictorian and Student Council Vice President, American International School, Chennai. Elected separately by student body to speak at graduation.