

ANTONY FRANCIS KELVIN PAUL

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Education

University of Pittsburgh Pittsburgh, Pennsylvania	M.S (C.S)	2019-2021	3.53/4.00
Anna University Chennai, India	B.E (C.S)	2014-2018	8.19/10.00

Projects and Internships

Probabilistic CKY Parser | Academy Project

Dec'20

- Implemented a variation of CKY parser that will return all possible parse trees of a given sentence given the grammar rules. Grammar rules were first binarized and passed to the CKY parser and later were again converted to their natural form.
- Domain:** Bottom-Up parsing, Trees, Dynamic Programming.
- Technologies used:** Python.

Fault Tolerant Distributed Storage | Academic Project

May'20

- Designed a fault tolerant distributed storage system. The client can connect to multiple storage systems and read/download files. The location of all storage nodes is stored in a directory server. The design was capable of handling up to 1 directory server failure and multiple storage node failures.
- Domain:** Client-Server programming, Multithreading.
- Technologies used:** Java.

Finding k-nearest Neighbors using Hadoop | Academic Project

Dec'19

- Wrote a map reduce program that would find K-nearest Neighbors of all points in a large dataset. The dataset was decomposed into cells using hierarchical space decomposition in quadrees (4 equal size cells). Each split will decompose the data in the current cell to 4 equal size cells (quadrants).
- Domain:** KNN, Hadoop, Trees
- Technologies used:** Java, Map reduce

Pitt Social App | Academic Project

Apr'19

- A social media CLI app that allows users to register to the app and send friend requests, and messages to the users they are friends with. The goal of this project is to design databases and practice SQL queries, check, assertions, and triggers.
- Domain:** Relational Databases
- Technologies used:** Java, Postgres SQL

Utility App | Personal Project

Jan'19

- Utility app that has various utilities like URL encoder/decoders, RGB/HEX converters, Timestamp converters, Unit converters, Number base converters, and string-based utilities. Hosted the site on Netlify.
- Domain:** Web development
- Technologies used:** HTML, CSS, JavaScript

Zoho Corporation | Software Developer Intern

Jan'18-June'18

- Worked on a module in Zoho customer relationship management (CRM) that boosts sales. Involved in debugging and sorting the issues identified. Integrated a tagging feature in sandbox using Java, JavaScript.

Certifications and Skills

- Oracle certified professional, Java SE6 Programmer.
- Code chef certified Foundation level exam (proctored exam on data structures and algorithms).
- Skills:** C, C++, Java Python, SQL, HTML, CSS, JavaScript, TypeScript, Git.