

Zubair Abid

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EXPERIENCE

MICROSOFT | Software Engineer Intern

May 2021 – July 2021 | Hyderabad, IN

- Worked on Distributed Caching using the Redis project to improve request latencies, improving request latencies by as much as 40%.

IIIT HYDERABAD | Student WebAdmin

July 2019 – December 2020 | Hyderabad, IN

- Built and deployed the login management system for the Institute's intranet sites.
- Updated the internal IT-help wiki system.
- Suggested and tested solutions for the move to an online semester in the COVID-19 pandemic.
- General management and upkeep of Institute websites.

SELECTED PROJECTS

HYBRID MACHINE TRANSLATION | APRIL 2020

- Implemented the Neural Machine Translation with Universal Visual Representation paper in a team of two in PyTorch. Used a Transformer architecture along with visual cues for relatively low-resource EN-FR translation. Implemented a basic Attention model for the baseline.

BILINGUAL WORD EMBEDDINGS WITH MINIMAL PARALLEL DATA | NOVEMBER 2019

- Implemented Learning bilingual word embeddings with (almost) no bilingual data in a team of two in PyTorch, for EN-HI data.

SEARCH ENGINE FOR WIKIPEDIA | SEPTEMBER 2020

- Implemented a search engine in python to index the XML Dump of English Wikipedia (after splitting into smaller segments for quicker operation with fewer memory constraints) and then searching through it with a simple tf-idf based search algorithm.

INTERPRETER FOR A RECURSIVE LANGUAGE | AUGUST - NOVEMBER 2020

- Assignments in a Principles of Programming Languages course in which we built an interpreter for an increasingly more complex language over time, finally terminating in support for a language implementing recursion.

PATHFINDING VISUALISER | JULY 2020

- Implemented a pathfinding visualiser in Vanilla JavaScript for contour maps. Implemented A-star and Dijkstra's, and a custom algorithm for contoured terrain generation.

INTERACTIVE LINUX SHELL IN C | OCTOBER 2018

- Wrote a basic interactive Linux shell interpreter in C, supporting all basic commands like ls and cd, and process management procedures.

PROXY SERVER IN PYTHON | APRIL 2019

- Made an HTTP web server in a team of two, that caches webpages and implements authentication and blacklisting, as part of a Computer Networks course assignment.

EDUCATION

IIIT HYDERABAD

2017 - 2022 | Hyderabad, IN

BTech in Computer Science

MS in Computational Linguistics

Cumulative GPA: 8.31 / 10.0

SKILLS

Regular Use:

Python • C#

Familiar:

C++ • Java • HTML & CSS • JavaScript

Used:

Solidity • Go • SQL

Tools:

Git/Github • Linux (CentOS/Arch Linux)

PyTorch • scikit-learn • Jekyll

Django • Flask • SQLite

Apache • nginx • Bash scripting

ACHIEVEMENTS

Rank 1978 / 11704 Participants, Google Kickstart Round D 2020

First Runners Up, Microsoft

Codefundo++ 2018 (Team Blueticks)

Second Runners Up, Megathon 2018

POSITIONS OF

RESPONSIBILITY

Teaching Assistant at IIIT Hyderabad
Spring 2021

Chief Editor of Ping!, Student Magazine
August 2018 - July 2020

Head of Tech at Entrepreneurship Cell
April 2018-March 2019

COURSEWORK

Software Engineering

Natural Language Processing

Statistical Methods in AI

Principles of Programming Languages

Principles of Information Security

Data Structures and Algorithms

Structured Systems Analysis and Design

Distributing Trust & Blockchains

Operating Systems

Computer Networks

LINKS

GitHub: github.com/zubairabid

LinkedIn: [linkedin.com/in/zubair-abid](https://www.linkedin.com/in/zubair-abid)

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