Zubair ABID

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🎓 EDUCATION

2005-2017	St. Xavier's Collegiate School, Kolkata
2017-2022 (expected)	B. Tech (Computer Science) + MS (Computational Linguistics), IIIT Hyderabad

☰ SKILLS

Programming	**Python**, Java, C++, **C**, Solidity, Javascript, Go, HTML, CSS
Frameworks	**Jekyll**, NetworkX, Django, Flask, **PyTorch**, **scikit-learn**, Bootstrap, React, Materialize
Databases	SQLite
Development Tools	**git**, vim, Visual Studio Code
System Expertise	Unix Systems (Arch Linux, CentOS), Servers (Apache, nginx)

✚ ACHIEVEMENTS

> **First Runners Up, Microsoft Codefundo++ 2018 (Team Blueticks)** Proposed and presented proof-of-concept for a Mesh Network using basic smartphone hardware to maintain emergency communications during a Natural Disaster.
> **Second Runners Up, Megathon 2018** Game in Unity for the EA Challenge

💼 WORK EXPERIENCE

Institute Webadmin
July 2019 - Present

Student WebAdmin, IIIT HYDERABAD, Hyderabad

> 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

`Git` `Apache` `nginx` `MediaWiki` `Java` `CAS`

Software Developer
August 2018 - November 2018

Software Development Intern, NEXREA, Hyderabad

> Worked on a software platform to enable an accelerated learning environment for gifted students
> Built along the lines of SMILE (Stanford Mobile Inquiry-based Learning Environment)
> Created a web application for the platform in Django and React

`Python 3` `Django` `React` `Git` `Javascript`

Tech Head
April 2018 - March 2019

Head of Tech, E-CELL, IIIT HYDERABAD, Hyderabad

> Led a team of five for various projects
> Built and deployed E-Cell Websites
> Managed Databases used by the organisation
> Created submission portals for Hackathons and other contests

`Git` `GitHub` `nginx` `React` `Django` `Jekyll` `Javascript` `HTML` `CSS`

💻 MAJOR PROJECTS

See all my projects here : zubairabid.github.io/projects.html

HYBRID MT : IMPLEMENTATION OF UVR-NMT   APRIL 2020

 github.com/zubairabid/hybrid-mt
Implemented the Neural Machine Translation with Universal Visual Representation paper in a team of two as part of a NLP Applications course project, for EN-FR translation. Also implemented basic Attention for the baseline.

`Python 3` `PyTorch` `Jupyter Notebook`

Learning Bilingual word embeddings with minimal bilingual data

November 2019

 github.com/akshayg08/NLP-Project

Implemented Learning bilingual word embeddings with (almost) no bilingual data in a team of two as part of a NLP course project, for EN-HI data.

`Python 3` `fasttext` `PyTorch` `Jupyter Notebook`

Sentiment Classification for Bengali News Articles

May 2019

 github.com/zubairabid/CL2-Project

Creating a pipeline for polarity classification of Bengali news articles using multiple methods, and comparing the results using three different methods of evaluation

`Python 3` `NLTK` `Jupyter Notebook`

High-Low Game in the Ethereum Blockchain

September 2018

 github.com/zubairabid/HighLowSolidity

Wrote a smart contract and tests, in a team of two, to play the High-Low House vs Players game in Solidity.

`Solidity`

Interactive Linux Shell in C

October 2018

 github.com/zubairabid/course-shell

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

`C`

Proxy Server in Python

April 2019

 github.com/cathreya/Proxy-Server

Made an HTTP web server in a team of two that caches webpages and implements authentication and blacklisting as part of my Computer Networks Assignment.

`Python`

Basic Language Model and Tokenizer

September 2019

 github.com/zubairabid/Parser-LM

Built an English Language Tokenizer to correctly identify numbers, email addresses, mentions, currency values, and more. Runs 5x faster than NLTK's default word_tokenize. Made a basic n-gram language model, applied Kneyser-Ney Smoothing, and evaluated it.

`Python`

Comparison of Image Classification techniques and Dimensionality reduction methods

November 2019

 github.com/zubairabid/SMAI_Assignment2

As part of our Statistical Methods in AI course, analysed different techniques for Image Classification using various datasets. Also compared multiple dimensionality reduction methods (Eigenfaces, Fisherfaces, Resnet) to gauge the most effective.

`Python` `scikit-learn`

Analysis of Gendered Pronoun Usage in Corporate Environments

April 2018

 github.com/zubairabid/LingoProject

Analysed an extension of the Enron email corpus to note patterns in usage of gender-neutral pronouns across social strata in a corporate environment

`Python` `Java` `MongoDB`

Flight Simulator in C++ OpenGL

March 2019

 github.com/zubairabid/flightsim

Made an OpenGL 3D flight game as part of Computer Graphics course.

`C++` `OpenGL` `Blender`

🌐 Positions of Responsibility

> Web Administrator, IIIT Hyderabad *August 2019-Present*
> Chief Editor of Ping!, College Magazine *August 2018 - July 2020*
> Head of Tech at E-Cell *April 2018-March 2019*
> Head of Events at E-Cell *April 2019 - November 2019*