(+91) 8308837279 Pune, Maharashtra nikhilbhave20@gmail.com

Nikhil Bhave

B.Sc. Computer Science

www.ashoka.edu.in github.com/nikhilbhave9 linkedin.com/in/nikhil-bhave-b3671516b/

An Undergraduate Computer Science major with interests in Web development, Blockchains and Micro-architecture, along with Psychology and Political Science, looking for internship and job opportunities.

SKILLS

Languages & Frameworks Python, C, C++, R, Solidity, HTML, CSS, Javascript, React

Docker, Hyperledger Fabric, Octave GNU, ETFX, RemixIDE, ArduinoIDE **Tools & Applications** OS and MicroArch MIPS assembly, xv6 (MIT), SniperSIM Simulator, VANS, NVMAIN

Communication English, Marathi, Hindi, German

Miscellaneous Video Editing (Premiere Pro/DaVinci Resolve), Photography, Videography

TECHNICAL EXPERIENCE

Randomness Beacon - Ethereum

April 2022 — May 2022

Sonipat, HA

- Dr Mahavir Jhawar, Ashoka University
- Implemented a random number generator using the inherent entropy of Ethereum blocks Allows a user to generate a 256-bit random number approximately every 15 seconds
- Wrote the generator in a Solidity smart contract and deployed it on the Kovan testnet
- Developed a front-end using React.js to host the project (can be found *here*)

'EZY' Compiler

Dr Manu Awasthi

November 2021 — December 2021

Sonipat, HA

Dr Shrawan Kumar, Ashoka University

- Attempted to create a mini-compiler for a mock programming language called 'EZY'
- Used the PLY (Python Lex-Yacc) tool for parsing through high-level code
- Created a custom symbol table and wrote semantic checks for the same
- Project can be found here.

November 2021 — December 2021 PerfectPitch

Dr Subhashis Banerjee, Ashoka University

Sonipat, HA

- Created a genre classification app to classify songs into 10 distinct genres
- Utilized SVM, K-means clustering and Bagging classification algorithms
- Trained the model on the GTZAN dataset (*link*)
- Final project for CS-1390: Introduction to Machine Learning, can be found here.

Research Intern - COSys Research Group

June 2021 — December 2021

Remote

- Worked on implementing the paper Prefetching in Hybrid Main Memory Systems: https://www.usenix.org/system/files/hotstorage20_paper_v.pdf
- · Contributed towards creation of a memory simulation pipeline using SniperSIM, NVMain and VANS simulators
- · Research funded by Huawei Technologies Co. Ltd.

Teaching Assistant - ENG-2350/CS-2109: Introduction to Digital Humanities

September 2021 — December 2021

Sonipat, HA

Dr Johannes Burgers, Ashoka University

- Received an aggregate student feedback of 4.72/5
- · Responsibilities included conducting regular office hours, managing course logistics and assisting with grading
- Designed a feedback mechanism for better group collaboration and accountability

EDUCATION

Bachelor of Science (Honours) in Computer Science, Ashoka University

2019 - 2023

GPA: 3.58/4 (8.95/10)

Relevant Courses: Linear Algebra, Algorithm Design & Analysis, Introduction to Machine Learning, Operating Systems, Programming Language Design and Implementation, Introduction to Digital Humanities, Computer Networks, Blockchain and Cryptocurrencies

Dean's List: Monsoon 2019, Spring 2020

HSC (Commerce), BMCC, Pune

2017 - 2019

Cummulative Percentage: 92%