(+91) 8308837279
Pune, Maharashtra
nik.3731@gmail.com

Nikhil Bhave

B.Sc. Computer Science

www.nikhilbhave.com
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 Digital Humanities, looking for 2023 job opportunities

Skills

Languages & Frameworks	Python, C, C++,Javascript, React, R, Solidity, HTML, CSS
Tools & Applications	Docker, Hyperledger Fabric, Octave GNU, LaTeX, RemixIDE, ArduinoIDE
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

Work Experience

CALSOFT - SWE Intern **July 2022 — Sept 2022**
A product-engineering services firm, working in Storage, Networking, Virtualization, Cloud, IoT and Analytics *Pune, MH*

- Worked on building a resume parser for Calsoft's Talent Acquisition team, in **Python**
- Created and deployed a full-stack implementation of the same using **React** and **Django** REST API

COSys RESEARCH GROUP - Research Intern **June 2021 — December 2021**
Supervised by Dr Manu Awasthi, Ashoka University *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, in **C++**, using SniperSIM, NVMain and VANS simulators
- Research funded by Huawei Technologies Co. Ltd.

Technical Experience

Notion Flashcard App **July 2022 — Aug 2022**
An app to convert notes from Notion, a note-taking software, into practice-able flashcards *Pune, MH*

- Utilized the Notion API to build a server-side application using **NodeJS**.
- Built an API interface to fetch data from a Notion database
- Created a client-facing **React** application to render the flashcards
- Project can be found *here*

Randomness Beacon - Ethereum **April 2022 — May 2022**
Under supervision of Dr Mahavir Jhawar, Ashoka University *Sonipat, HA*

- 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** to host the project (can be found *here*)

'EZY' Compiler **November 2021 — December 2021**
Under supervision of Dr Shrawan Kumar, Ashoka University *Sonipat, HA*

- 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*.

Education

Bachelor's in Computer Science, *Ashoka University* 2019 — 2023
GPA: 3.58/4 (8.95/10)
Teaching Assistant: Introduction to Digital Humanities (under Dr Johannes Burgers) - Monsoon 2021.
Received aggregate student feedback of 4.72/5
Relevant Courses: Algorithm Design & Analysis, Introduction to Machine Learning, Operating Systems, Programming Language Design 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%