

Dhanush Arivappagari

Portfolio: dvorakchat.000webhostapp.com

Github: github.com/4rivappa

Email: arivappa21@gmail.com

Mobile: +91 9391689424

EDUCATION

- Indian Institute of Information Technology, Sri City** Chittoor, India
Bachelor of Technology - Computer Science and Engineering July 2020 - June 2024
Courses: Data Structures, Analysis Of Algorithms, Machine Learning, Full stack development, Artificial Intelligence, Computer networking, Databases, Information Retrieval, Distributed computing, Cloud computing

SKILLS SUMMARY

- Languages:** Python, Go, JavaScript, JAVA, SQL, PHP
- Frameworks:** Selenium, Scikit, NativeBase
- Tools:** GIT, MongoDB, MySQL, SQLite
- Platforms:** Web, Windows, Linux
- Soft Skills:** Organization, Emotional intelligence, Time management, Task division

EXPERIENCE

- Hack with native base** Hackathon
Building a react native app (Drug-list) July 2022
 - Extraction of drugs data:** Collected data from website using selenium and beautifulsoup in python
 - App core feature to display info:** Built using the native-base's built in components, layouts and transitions
 - Interaction with the native-base team:** Exploring all the various easy to customize features of native-base
- Dvorakchat web application** Hackathon
Web application for open suggestions Nov 2021
 - Anonymous suggestions:** can replace the suggestions box in an organization maintaining anonymity
 - Place for online material:** Users can download some open source, free resources under their specific domain
 - Advice in community:** feature that enables user to advise their own experience with the community in chat forums

PROJECTS

- Restoring images with ML model (Backend development):** Back-end application, which uses an ML model from open source algorithm called GFPGAN on Replicate to restore images. Handling API through different routes. Tech: Go
- Farmers welfare web portal (Web development):** We have created a web portal, where farmers can get a list of crops according to their filter by soil type, season, investment and crop details. Tech: ReactJS, NodeJS, MongoDB
- Telegram Bot for image enhancement (Bot Creation):** Through our bot, users can upload an image and get enhanced image within seconds. Internally it uses GFPGAN algorithm to enhance images. Tech: Python
- Chat for open anonymous suggestion (Web development):** Platform for students to chat and make suggestions anonymously in particular domains with the community. Tech: PHP, Javascript, HTML, CSS
- Military officers database application (Object oriented programming, database):** We have implemented databases using rdbms, calculating and application using object oriented programming. Implemented some analysis of the officer data, using matplotlib that is running python through java, via terminal. Tech: JAVA, SQL, Python
- Finding highest fitness value for function in given interval (Artificial intelligence):** Implemented Genetic algorithm, until predefined count of iterations or defined number of non-improvement iterations. Tech: Python
- Performance analysis using linux tools (Performance):** Using various tools to analyse the hotspots of code (wrt execution time) and improve the code using parallelization and power of GPU units. Tech: Perf, Gprof, Rust, C, Cuda
- Personal landing page (Web development):** Used 3D objects and canvas particles to display design, which responds to the mouse movement. Tech: HTML canvas, Javascript, ThreeJS, Particle effect in canvas
- Druglist app - NativeBase hackathon (App development):** App where users can have a look at different drugs and details about them. Performed data extraction from website. Tech: React-Native, NativeBase, Python
- Searching large number of documents (Information retrieval):** Implemented standard Inverted-index for the collection of documents, and searching feature using boolean operations. Which is widely used like in macOS spotlight. Tech: Python
- Sorting huge data (Distributed computing):** Implemented distributed sorting with shared memory for a huge count of numbers. Faced challenges in read/write operation to a single memory from multiple computers. Tech: Python, win file share
- Command prompt customization (Powershell script):** Made my looking customizations to the Winfetch (command line system info utility), which is inspired by Neofetch and created custom script commands, to perform things automatically
- Automatic tweet analyser (Selenium automation):** Getting a Hindi tweet from a website, convert to English tweet, knowing harshness of tweet and scoring the tweet in source website automatically. Tech: Python, Selenium, BeautifulSoup
- Youtube Downloader (web scraping and ffmpeg):** Download youtube playlist (getting list) or video. Challenges for high quality videos, then downloaded video and audio separate, then merged using ffmpeg. Tech: Python, Selenium
- Layout converter (Web development, keyboard layouts):** Platform where users can convert text from one keyboard layout to another, supports qwerty, dvorak, colemak. Tech: Javascript

WORKFLOW

- Shout-out for the greatest softwares of all time:** In my workflow, I do use lot of opensource softwares, which are extremely powerful and useful. Some of them are neovim (vim), tmux, i3, vscode, vimium, community frameworks, etc...
- Activities:** Communicating with computer all the time (typing), using dvorak to comfort my fingers