

# Harini T

Portfolio: harini-jt

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## EDUCATION

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- **Indian Institute of Information Technology, Kottayam** Kerala, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 9.65* *Dec. 2020 - May 2024*  
*Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Database Management System, Parallel and Distributed Computing.*

## SKILLS SUMMARY

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- **Languages:** Python, C++, C, JavaScript, TypeScript, JAVA, SQL, PHP
- **Frameworks:** NodeJS, Express, Django, Flask, FastAPI
- **Tools:** InfluxDB, PyQt, MATLAB, Docker, GIT, MySQL, SQLite, OpenMP
- **Platforms:** Linux, Web, Windows, AWS, GCP
- **Soft Skills:** Leadership, Event Management, Writing, Time Management

## EXPERIENCE

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- **TealVue Software Solutions Private Limited** Remote  
*Backend Developer Intern* *Jan. 2022 - May 2022*
  - **Trading Algorithms:** Developed indicators and trading algorithms for intraday stock market analysis.
  - **REST API for data visualizations:** API development using ExpressJS and TypeScript for EOD stock market and routines for visualization of stock data.
  - **Java WebSocket:** Implemented a WebSocket for low-latency real time exchange of true data from the NSE stock exchange.
  - **Quantitative Analysis:** QA of EOD Stocks for TealVue's Option Derivative platform
- **Indira Gandhi Center for Atomic Research** Remote  
*Software Developer Intern under the guidance of Dr. Anish Kumar* *Apr. 2021 - Jun. 2021*
  - **EBSD Analysis algorithm:** Developed an algorithm for analysis of Electron Back Scattered Diffraction (EBSD) data
  - **Optimization and Impact:** Improved reliable, automated and quick EBSD analysis using Python, NUMBA and CUDA (GPU) optimizations for image processing.
  - **Software Development:** Software Development using PyQt, a Python-based framework for a user-friendly GUI.

## PROJECTS

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- **BigSy - Big data search engine (Elasticsearch, Search Engine, Web, Multimedia Processing, Big Data):** A software developed for getting optimal search results for big data spread across various structured and unstructured data and databases.  
Tech: Python, FastAPI, Cloudinary, Elasticsearch, ReactJS, GCP Vision API, Speech Recognition
- **Make Way (Mobile Application):** A feature to google maps to notify people using Google Maps app when an ambulance is nearby or on their way.  
Tech: Flutter, Firebase, Google Maps Platform APIs
- **Sorting-visualizer (Desktop Application):** Desktop application developed using Tkinter for visualizing sorting algorithms.  
Tech: Python, Tkinter
- **Vlearn (Web Application):** Online course registration system developed using Flask (SSR) and MongoDB to make the registration process easier.  
Tech: Python, Flask, MongoDB cloud, Server-Side Rendering.

## ACCOMPLISHMENTS

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- Winner of Smart Indian Hackathon software edition - Aug. 2022
- Mathematics for Machine Learning Specialization (PCA) - Jan. 2023
- Completed 30 days of Google Cloud Program on Cloud engineering and Data Science & ML Track - Oct. 2021
- App Development Lead of Beta Labs, IIIT Kottayam - Nov. 2022
- 3 stars at CodeChef with a rating of 1677 and a Global rank 24460 - Jul. 2022.
- NPTEL COURSE: Programming, Data Structure and Algorithms using Python with 84% Elite+Silver. - Mar. 2021