ISHAN SHANWARE

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Education

International Institute Of Information Technology, Bangalore (IIIT-B)   **July 2019 - July 2024**
iMtech (Dual Degree) in Computer Science and Engineering   *CGPA: 3.56/4.00 Transcript*

Relevant Coursework

Data Structures and Algorithms, Design and Analysis of Algorithms, Cloud Computing, Software Engineering, Computer Networks, Operating Systems, Database Systems, Machine Learning, Visual Recognition

Skills

Languages:	C/C++, Python, Java, Javascript
Technologies/Frameworks:	Git, Node.js, MongoDB, SQL, Numpy, Docker, AWS, Serverless, Kubernetes, Pytorch

Experience

Devfile (Cloud Native Computing Foundation)   **Remote**
Intern (LFX Mentee)   *Jun 2022 - Present*
- Devfile, is an open source project to define containerized development environments that enables developer tools to simplify and accelerate workflows.
- Working on integration of compose file support in a devfile definition. To allow developer's to leverage an existing compose file to build a developer environment definition. **Stack: golang, compose, docker, kubernetes**

Modular Open Source Identity Platform   **Remote**
Project Intern   *Jun 2021 - Aug 2021*
- MOSIP is a global project funded by world bank which is a global effort to develop an open source foundational ID system(eg: Aadhar) for governments to use.
- Worked on the project of writing the test rig of Partner Management Services. Project involved writing backend services in spring web, for the testing of every new endpoints created for these services.
Stack: Java, Spring web

Indywise   **Remote**
Software Developer Intern   *May 2021 - July 2021*
- Indywise is a platform, for providing mentoring-driven upskilling with AI insights.
- As an Intern, I primarily worked with the backend team for Delivery of microservices and lambda functions of the platform **Stack: AWS Lambda, Node.js, DynamoDB**

Projects

PDS Application | *C, Data Structures, Database Indexing Principles*   **October 2021**
- Built a personal data storage application in C based on the principles of Database indexing.
- Used Binary Search Trees for indexing operations in Creating, Reading, Updating and Deleting Records

Edu-Server-Client | *C, multi-threading, semaphores*   **May 2022**
- Implemented a multi-threaded Server and Client that communicate using Message Queues.
- Used Semaphores to protect data accessed by server and periodic report generator thread.

Inception-LSTM based Image Captioning | *CNN, LSTMs*   **May 2022**
- Designed an Inception-LSTM based network that extracts the latent features from the image using a pretrained inception network.
- Analysed the language bias of the model and correlation of words

Toy Load Balancer | *Golang*   **Jul 2022**
- Built load balancer simulation in golang. Currently supports the round robin load balancing strategy.
- Used the reverse proxy handler in the HTTPutils package of golang

Publications

Shanware, I., Ahmad, G.S., and Rao, S. 2023. Machine Learning Approaches for Energy Efficiency Problems. *ACM Computing Surveys (CSUR)*, (under review)

Achievements

- Hack The Mountains 2021 (Hackathon) Finalist(Top 50 teams out of 600 teams)
- Cohort 4 - Cisco Thingqbator Team selected out of 1800 teams