KRITIN POTLURU

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EXPERIENCE

SWE Intern

Qualcomm | 📅 May 2024 – July 2024

- Developed SDKs for Digital Signal Processors to aid process offloading on multiple platforms.
- Extended support for existing use cases utilizing SDKs on Auto, Android and Linux systems.
- Automated binary builds through cross-compilation for Google's Protocol Buffers (libprotobuf)

Data Engineering Intern

Regeneron Pharmaceuticals | 📅 May 2023 – July 2023

- Designed, developed and deployed a microservice utilizing **AWS services**, **Docker** and **Kubernetes**, to calculate health of data platform services(**AWS EMR**, **AWS MWAA**, **Privacera**, **Collibra**)
- Achieved a 30% reduction in troubleshooting time, 50% reducion in number of tickets raised
- Collaborated within an Agile framework using **Jira**

Research Intern

Web Science Lab,
IIIT Bangalore | 📅 August 2022 – January 2023

- Working with NLP techniques to extract key phrases and build a Bloom's Taxanomy Vector for learners. Using various machine learning libraries along with NLP libraries to extract emotions and sentiments and analyse correlations.

Open Source Program Intern

IIIT Bangalore | 📅 June 2022 – August 2022

- Contributed to building a complaint management system for universities using Angular and SpringBoot.

Summer Intern

IIIT Bangalore | 📅 May 2022 – July 2022

- Overhauled a patient sample tracker for the histopathology lab at the National Institute for Mental Health Neurosciences (NIMHANS), Bangalore.
- Used by 10+ staff and reduced workload by 20%.

ACHIEVEMENTS

ByteSynergy Hackathon 2022 (Winner) - Developed online application to help match recruiters and job seekers

Hack-a-Web(NITB) Hackathon 2022 (Finalists) - Developed healthcare portal to connect doctors and patients

RELEVANT COURSES

EDUCATION

Integrated MTech in Computer Science and Engineering
CGPA: 3.45/4

International Institute of Information Technology, Bangalore | 📅 August 2020 – July 2025

PROJECTS

IIITB CMS | 📅 June 2022
- Online complaint management system for universities and their committees built on Angular and SpringBoot
- `Java` `Angular` `SpringBoot`

E-Commerce Price Prediction System |
📅 Dec 2022
- Created a complete solution to predict prices of e-commerce items using machine learning techniques.
- Implemented multiple machine learning models including ensemble models.
- `Python` `scikit-learn`

Histopathology Lab Sample Tracker Dashboard |
📅 May 2022
- Developed dashboard to view statistics related to the Histopathology Lab at the National Institute of Mental Health and Neuroscience using Angular, SpringBoot.
- `Java` `Angular` `SpringBoot`

Scoutify | 📅 April 2023
- Online platform to recommend football players to clubs based on club philosophies and player traits.
- `Python` `AIML` `Algorithms`

TECHNICAL SKILLS

`Python` `AWS` `Docker` `Kubernetes` `C++`
`Angular` `scikit-learn` `SpringBoot` `C` `Java`
`HTML/CSS` `JavaScript` `React` `Git` `MySQL`

TEACHING AND MENTORING EXPERIENCE

- Teaching Assistant for ESS 201 - Programming in C++/JAVA.
- Teaching Assistant for CS303 - Software Engineering
- Teaching Assistant for CS212 - Design and Analysis of Algorithms
- Teaching Assistant for GEN201 - Technical Communication
- Teaching Assistant for AMS 203 - Physics

EXTRA-CURRICULAR ACTIVITIES

- Core member of Sports Committee at IIITB
- Developer and UI/UX Designer at Zense - IIITB
- Member of the IIITB Men's Basketball Team
- Member of the IIITB Men's Volleyball Team

Software Engineering, Operating Systems, Database Systems, Computer Networks, Computer Architecture, Software Architecture, Machine Learning, Maths for Machine Learning, Data Structures and Algorithms, Design and Analysis of Algorithms, NoSQL, Streaming Data Systems