

HIMANSHU LONDHE

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EDUCATION

University of Maryland, Baltimore County, USA

Master in Computer Science [GPA: 3.8]

May 2021

University of Pune, India

Bachelor of Engineering, Computer Science [GPA: 3.7]

June 2018

WORK EXPERIENCE

Software Engineer | OPSWAT Inc: Tampa, FL

MetaAccess Back End

June 2021 - Present

- Created mechanisms to deal with real-time device health and security data on the back end for up to 200k active users which is used by the servers for device compliance management.
- Designed authentication flows by implementing APIs for device health and security reports.
- Processed thousands of concurrent requests to the backend by developing async apis that run parallelly.

MetaAccess Client

- In-charge of developing the Flagship iOS and Android products for Opswat and assist in development of the in-house VPN product used by almost 25k active users.
- Contributed to the development of SAML IdP workflow on mobile for authenticating users accessing critical resources.
- Enhanced the privacy suite in the applications by implementing Malware detection, permissions manager, ad-tracker; thereby attracting new clients.

CICD and Misc

- Saved almost 2 person-hours by replacing the manual building process with a fully automated CICD workflow.
- Designed a first of its kind authentication flow for mobile by running a background service to authenticate devices without having the users to open the app.

[Java, C, C#,Objective-C, Kotlin, GO, Angular, REST APIs, SpringBoot, Docker, Mongo, Full Stack]

Software Engineer Intern | Ardent Privacy: Baltimore, MD

July 2020 - Sept 2020

- Developed and implemented a novel machine learning framework to identify the presence of sensitive data so as to find indicators for the data minimization platform without scanning the content of the files, thereby preserving data privacy.
 - Built RESTful APIs using python and flask. Designed a SQLite database schema to store client server metadata of upto 50GB. Used indexing techniques to optimize database. Utilized Redis for fast access to API responses and data caching.
 - Integrated and deployed the model successfully on Amazon EC2 web server. Deployed using AWS CI/CD tools like AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy, and AWS CodePipeline.
 - Monitored API health using Grafana to ensure high availability of the service.
- [Python, Flask, AWS, SQLite, sklearn, Back-end]

SKILLS

Languages	Java, Python, C++, C, C#, R, HTML, CSS, GO, Kotlin, Swift
Libraries	React, NumPy, SKlearn, Apache Spark, TensorFlow, Keras, Pandas, Matplotlib
Web Technologies	RESTful APIs, Git, Node JS, Flask, Django, Cocoa frameworks, AndroidX, Kafka
Database	MySQL, SQLite, MongoDB, Cassandra
Other	Linux Administration, Shell Scripting, AWS, Debugging, Arduino, Agile, Docker, Android, MPI

PROJECTS

Explainable AI for Air Quality Prediction as a Full-Stack Application

-Designed and developed a classifier for calculating Air Quality Index from the weather data with 98% accuracy and using Explainable AI to explain the results of the Classification Model.

-Implemented front-end service using React, javascript and HTML CSS.

[Python, XGBoost, Regression, Multi-label, full-stack, Classification, Django, React JS]

Sept 2020 - Dec 2020

Centralized Multi-User Concurrent Bank Account Manager

-Designed and developed a bank server that handles multiple clients and does so using distributed programming concepts.

-Devised socket programming and TCP/IP protocols to handle concurrent transaction requests.

[C++, sockets, mutexes, fault tolerance, time synchronization]

Sept 2019 - Dec 2019

Enhanced Support Vector Machine with Speed Up and Reduced Sensitivity

Improved the classification accuracy of linear Support Vector Machines by 8-13% by designing a data preprocessing module which reduces 'scatteredness' of the data. [Python, sklearn, pandas, Matplotlib]

Aug 2017 - Dec 2018