

AYMAN SAYED

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EDUCATION

Master's in Applied Machine Learning, University of Maryland at College Park Expected 2027
Relevant Coursework: *Principles of ML, Probability & Statistics, Principles of Data Science*

Bachelor of Computer Science, National Institute of Technology Rourkela 2019 - 2023
Relevant Coursework: *Data Structures & Algorithms, Operating System, Software Eng., ML, AI*

EXPERIENCE

Senior Software Developer, Platform Intelligence Feb 2025 - Aug 2025
Samsung Research Institute Bangalore *Bangalore, KA, India*

- Developed Agentic AI workflow for SEAL (Smart Efficient App Lock) model to identify unauthorized access.
- Developed out-of-box on-boarding service that seamlessly sync WiFi profiles and Samsung accounts on PC from Android devices during first-time PC startup.

Software Developer, On Device AI Nov 2023 - Feb 2025
Samsung Research Institute Bangalore *Bangalore, KA, India*

- Developed Key Provisioning system providing hardware backed root of trust on Samsung PC's. Implemented security validation of TPM, Secure Boot, Kernel DMA protection & Memory Integrity (HVCi) for Knox Security.
- Implemented REST handlers to facilitate server connections; improved code quality & stability of Knox Matrix, achieving a 35% performance increase, while maintaining the codebase by fixing bugs & resolving freeze issues.
- Implemented encrypted sync of data for Samsung Cloud, Internet, & Notes via KM integration. Built framework to integrate Samsung Analytics with Trustchain to send event data to Big Data servers & enable crash reporting.

SDE Intern, Visual Intelligence May 2022 - July 2022
Samsung Research Institute Bangalore *Remote*

- Built app to analyze capabilities of cameras of connected devices & provide features of search by id or any of 400 properties, display vendor tags, compare cameras across devices and also search their differences.

PROJECTS

TapCode Tech Stack: *LangGraph, Python, Groq, StateGraph, ReactAgent, LangChain tools*
Built an Agentic AI system that autonomously generates full-stack application code from input prompt. ([Github](#))

Stock Trend Tracker Tech Stack: *Python, Selenium, pickle, BS4, ChromeDriver, Javascript, HTML & CSS*
An app that analyzes most volatile NSE stocks over 7 financial metrics across the last 4 quarters, and creates a list of invest-able stocks. It also displays candlestick charts for each stock in a Chromium-based browser. ([Github](#))

Potato Disease Analyzer Tech: *Python, Tensorflow, Keras, CNN, TF Serving, FastAPI, Android, Java, GCP*
An app that analyzes most volatile NSE stocks over 7 financial metrics across the last 4 quarters, and creates a list of invest-able stocks. It also displays candlestick charts for each stock in a Chromium-based browser. ([Github](#))

Paper Trading Tech Stack: *Java, Android Studio, ADB, JSoup, SharedPreferences*
Android app that enables users to search, buy, or sell stocks using virtual currency at real-time prices. Also provides detailed analysis & give ratings to user based on each trade. ([Github](#))

SKILLS

Programming	C, C++, Python, C#, Java, HTML, CSS, JS, Bash, Dart, PS1
App Frameworks	UWP, .NET, Android Studio, WPF, NetBeans, Bootstrap, NodeJS, React
Data Stack	Tableau, SQL, MongoDB, Numpy, Pandas, Matplotlib, Plotly
ML Frameworks	Sci-Kit Learn, Tensorflow, Pytorch, Keras, LangChain, LangGraph
Technologies	Git, Docker, Jenkins, REST APIs, Linux