Alankrut Patel

PORTFOLIO - alankrut.com
EMAIL - alan@alankrut.com

EXPERIENCE

T-Mobile – *Solutions Architect - AI Platform*

August 2021 – PRESENT

As a Solutions Architect in T-Mobile's Digital AI group, I am a key member of the Voice ASR (Automatic Speech Recognition) Platform team. In this role, I have played a critical role in achieving the following accomplishments:

- Orchestrated the coordination layer between Business Applications and Data Science Models through the development of Java Microservices, resulting in a more seamless workflow and improved system performance.
- Collaborated closely with stakeholders throughout the project lifecycle to ensure timely and successful project delivery, including requirement gathering, design, testing, and implementation.
- Implemented hardware optimization strategies, resulting in 2.5+ millions in savings for the organization.
- Played an instrumental role in the development of a cutting-edge virtual voice agent, replacing traditional IVR systems with a more natural and human-like interface for customers seeking assistance.
- Successfully led the onboarding effort for our services onto a new cloud provider, Google Cloud Platform (GCP).
- Mentored and provided guidance to team members, helping enhance their skills and knowledge.

JP Morgan Chase – *Cybersecurity Software Engineer*

July 2018 – August 2021

- Served as the lead developer for a greenfield effort regarding the automation of Secrets Management Agents.
- Reduced end to end processing time of agent installations by a factor of 97%. Leveraging Ansible over manual intervention.
- Assisted in the creation and standardization of a new security control procedure regarding production deployments. This became the officially endorsed company-wide standard.
- Mentored team members on software development best practices. Directed and managed a team of six summer interns, overseeing the entire software development lifecycle.

State Farm Insurance Company – *Software Developer*

June 2015 – July 2018

- Served as a key point of contact for the Java portion of State Farm Bank's vehicle loan underwriting engine. This included making enhancements and maintaining legacy code.
- Developed a solution that was critical to our business partners that ultimately addressed a compliance gap. Without which the application could not be released to more volume.
- Redesigned several nightly batch jobs to run more efficiently, most of which saw the reduction in time anywhere between 75-90%.
- Trained directly by the DBA in SQL, allowing for a greater understanding of the database, which lead to increased productivity for data heavy portions of the application.

ABOUT

A passionate Software Developer with a diverse skill set and a keen eye for detail. I take pride in delivering exceptional solutions and thrive on challenges. Through Personal Projects and Professional Development, I strive to stay at the forefront of the industry by constantly learning so that I can be equipped to make a real impact.

SKILLS

Languages

- Java, Python, Kotlin, JS
- Ansible, Bash, Powershell
- HTML, YAML

Technologies

- Docker, Kubernetes
- AWS, Google Cloud
- Postgres, Oracle PL/SQL, MySQL
- RESTful API, XML, JSON
- GIT, Subversion
- Splunk, Grafana
- Linux, Windows

Frameworks

- SpringBoot Framework, Flask Framework
- Kafka, MQTT
- Android SDK, Arduino SDK

Methodologies

- Cloud-First Architecture
- Object Oriented Programming
- Domain Driven Development
- Agile / Scrum

EDUCATION

University of Texas at Dallas

Aug 2012 - May 2015

- Bachelor of Science in Computer Science

(continued on back)

PROJECTS

Facial Recognition Security — *Python*

Implemented automated security for my home using facial recognition technology. The project was designed to run entirely on my local network, with no data leaving my personal server. I trained the system using several pictures of myself to ensure accurate recognition. Once the face is detected, my python-based automations run to provide ease and increased security around the house.

Financial Tracking — *Python*

Created a locally hosted financial aggregator tool comparable to Intuit's Mint. Utilizing the Plaid API to fetch account information, results are parsed and persisted in a PostgresDB instance. Financial dashboards created via Grafana. Financial data is retrieved automatically at the end of standard stock market hours. Created an Android application to monitor this data on the go.

Home Automation — *Python*

Stood up a dedicated home automation server (via Docker) using an open-source python project (Home Assistant). Utilized a python daemon to trigger event driven automations for certain events around the house. Including data from but not limited to my own custom sensors, Tesla vehicles, elevation of the sun, home security system, bed occupancy sensors, and phone metrics.

IOT Multi Sensor — *Python*

Designed and fabricated my own custom PCBs for a WiFi based multi sensor. This sensor reports temperature, humidity, luminescence, and motion to a centralized local server for automation.

Crypto Tracker — *C*

Using an ESP8266 MicroProcesser at its core, I created a crypto currency price monitoring tool with a screen. This device utilizes the CryptoCompare API via webservice calls. The user can configure which crypto they'd like to track, the frequency in which to reload, as well as which fiat currency to compare to.