Alankrut Patel

EXPERIENCE

JP Morgan Chase - Cybersecurity Software Engineer

July 2018 - Present

- Served as the lead developer for a greenfield effort regarding the automation of Secrets Management Agents. SpringBoot RESTful API deployed to Pivotal Cloud Foundry.
- Developed a framework in which the Secrets Management RESTful API could scale at large. This is now utilized as a template for new projects.
- 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.
- Modernized the centralized search application used for secrets management. This
 introduced enhanced security procedures which were not present on the legacy
 application.
- Deployed several SpringBoot RESTful APIs using cloud first practices.
- Helped build up the development team for the automation effort. This consisted of training a variety of team members, including seniors. As well as leading a group of six summer interns through the full 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.

PROJECTS

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 a 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 — Arduino / C

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.

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ABOUT

A detail-oriented software developer who offers a diverse skill set. I am very enthusiastic about technology, take great pride in my work, am always up for a challenge and am continuously learning more. I can be found outside of work enhancing my skillset through various side projects, both software and hardware.

SKILLS

Languages

- Java, Python, SQL
- Ansible, Bash, Powershell

Technologies + Frameworks

- Postgres, Oracle PL/SQL, MySQL
- RESTful API, XML, JSON
- SpringBoot Framework, Flask Framework
- Android SDK, Arduino SDK
- GIT, Subversion
- Splunk, Grafana

Methodologies

Object Oriented
 Programming, Agile, Design
 Patterns, Cloud-First, CI/CD

EDUCATION

University of Texas at Dallas

Aug 2012 - May 2015

Bachelor of Science in Computer Science

PROJECTS (CONTINUED)

Finance API - Python

 Complimenting the Financial Tracking project, a Restful API was created using the Flask Framework and a Postgres DB.

Telegram Bot - Python

- Created a chat bot to receive home server notifications.
- Supports chat commands to control certain home devices.