# Asadullah Farooqi (Asadullah)

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**Languages:** **English** (Fluent), **Urdu** (Fluent), **Arabic** (Good in Grammar), **Persian** (Beginner), **Pashto** (Fluent)

**Summary:** Software engineer with over 5 years of experience developing scalable and robust applications. I've worked in embedded, IoT, Web, automation, and Fintech. Enthusiastic of Fleet, Linux, low-level, OS, and distributed systems.

## Permanent and Full-Time

Senior Backend Engineer at SafePay                                           Apr 2022 - Present
- Implemented an asynchronous reconciliation system to reduce the accounts team's manual work by 99%.
- I implemented the whole warehouse infrastructure i.e. I wrote ETL DataPipelines, jobs, and services. These jobs/services stored the data in a customized warehouse.
- Enhanced the reporting of payments, wrote many APIs and complex MySQL and PostgreSQL queries for charts for the merchant's and admin's dashboards. And added an audit logging system from scratch for the admin staff.
- I added new wallets like Easypaisa and AbhiPay in payment methods and card payment, which involved writing microservices from scratch using Golang, Go-kit, and Docker and creating their MySQL DB design.
- Modernized the registration flow. Extended multiple services and related packages by adding additional security covering edge cases and validation layers.
- Wrote a billing service so customers/third parties could pay all types of utility bills.
- Tech-stack: Golang, Docker, Kubernetes, AWS SNS, AWS SQS, AWS RDS, Go-kit, MySQL, Postgres, ETL, async.

Software Engineer at Siemens DISW                                           Feb 2020 - Mar 2022
- Added AWS, Azure IoT, and Flogo support in the IoT Edge solution for telemetry via MQTT using the AWS and Azure SDK. That involved device authentication, provisioning, telemetry data, and firmware updates.
- Added multiple features in the Embedded IoT framework. Wrote a complete test automation framework using Python for unit, integrated, and firmware update testing for the Embedded IoT Framework.
- Tech-Stack in my daily job: C, Golang, Python, AWS, Azure, Docker, GCC Debugger, make, Cmake, Linux, virtualization, Delve Debugger.

## Internships, Part-Time, and Short-Term Contracts

Freelance Fullstack Dev at BCI Innovation Labs                              Jan 2024 - Feb 2024
- I resolved issues + added features for BP8 Fitness using Golang, React, MongoDB, Docker, and onboarding joiners.

PT Backend Contractor at Microsec.ai                                        Dec 2022 - Feb 2023
- I updated the DLP scanning mechanism to cache the configurations using Golang, Gin, Docker, K8s, and REST.
- Wrote a compliance proxy service for **AWS Lambda** scanning that would consume on RabbitMQ.

PT Python Developer at TechBay                                              Nov 2020 - Jan 2021
- I wrote a Django web app that used CDN for media file storage and MongoDB for data management.
- The Halidai app was a social media app similar to TikTok after this feature users with vendor profiles could now lend products to other users. Tech-stack used Python, Django, MongoDB, HTML, CSS, Bootstrap, and Git.

Python Developer at Punch Group                                             Dec 2019 - Jan 2020
- A temporary part-time contract based on resolving the ongoing issues and removing the blockers.
- I implemented the card frontend logic in Skipify using React JS.
- Wrote a Flask web app for the sales team to interact with the lead generation which automated manual workflow of file generation and handingovers.
- I optimized the lead generation code to reduce the cloud cost, scrapers would efficiently collect jobs/projects and direct them to the sales team to pitch for the projects that brought business.
- Tech-Stack: Python, Flask, ReactJS, NextJS, Docker, and GraphQL.

Software Engineer Intern at Maher Inc.                                      Dec 2018 - Mar 2019
- Fixed UI problems and bugs in StyleMepretty.
- Support for data exportation was added to a live POS financial dashboard.
- I added APIs for statistics in the backend and charts in the front end to display various matrices. My improvements made the dashboard more analytical, providing clean data, and different types of charts.
- Tech-stack: Python, Django, Angular JS, React JS, HTML, CSS, Echart JS, Pandas, and Docker.

Contractor Inventory web app                                               Nov 2017 - Mar 2018
- Built an inventory-responsive web app for a local businessman to manage branches and ledgers. As this was my first project ever, I learned a lot. Tech: Python, Django, Jinja, Bootstrap, Pythonanywhere, Gunicorn, WSGI.

## SKILLS

**Programming Languages:** Golang, Python, C, Bash, JavaScript
**Web:** Gin, Go-kit, Go-echo, Django, Flask, React JS, NextJS, HTML/CSS, Bootstrap, Material-UI, Angular JS, Jinja
**Other tools and technologies:** Git, Docker, Kubernetes, Azure IoT, AWS IoT, MongoDB, MySQL, Postgres, HTTP, gRPC, MQTT, GraphQL, Redis, Github actions, ETL pipelines.

## EDUCATION

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| Government College Loralai | FSc (Mathematics) | 2013 - 2015 |
| Farooqi Public High School | Matriculation (Science) | 2011 - 2013 |