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 about Fleet, Linux, low-level OS, and distributed systems.

Permanent and Full-Time

Lead Backend Engineer at SafePay   Apr 2022 - Present
- I've been leading the team of engineers, taking standups, and helping engineers with various hurdles.
- Integrated ElasticSearch in the whole ecosystem to improve analytics by 100%.
- Implemented a controllable Golang asynchronous reconciliation system to automate reconciliations by 99%.
- I implemented advanced settlement generation to address the marketplace-like customers like Stripe Connect.
- I implemented the whole warehouse (in Postgres) infrastructure. I wrote ETL DataPipelines, backfilling Kubernetes jobs, SQS event listeners, etc.
- Added the reporting of payments, wrote many APIs and complex MySQL and PostgreSQL queries for charts for the merchants' 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.
- Extended multiple services and related packages by adding additional security and validation layers. These included adding mechanisms for Bin-based MDR charge, writing gRPC clients, and protobuf libraries.
- Wrote a billing service for customers and third parties to pay utility bills, which covers 90% of companies.
- 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, integration, 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
- added features for BP8 Fitness using Golang, React, MongoDB, Docker, and onboarding joiners.
- Resolved the race condition issues in the API.

PT Python Developer at TechBay   Nov 2020 - Jan 2021
- I wrote a Django web app that used a 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 is 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 the manual workflow of file generation and handovers.
- 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.
- 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 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 technologies: Git, Docker, Kubernetes, Azure IoT, AWS IoT, MongoDB, MySQL, Postgres, HTTP, gRPC, MQTT, GraphQL, Redis, GitHub actions, ETL pipelines, AWS SQS, AWS Aurora, AWS EKS.

EDUCATION

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