

# Asad Ullah

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## PROFESSIONAL EXPERIENCE

- Backend Engineer****SafePay****Mar 2022 - Present**
  - Wrote ETL DataPipelines for the data warehouse to ease the DB for analytics.
  - Enhanced the reporting of payments, wrote many endpoints and complex MySQL queries for charts on the merchant's and admin's dashboards. And added an audit logging mechanism for the admin staff.
  - I Added new payment methods in the payment options such as Easypaisa and Abhi, which involved writing microservices from scratch using Golang, Go-kit, and Docker and creating their MySQL DB design.
  - Modernized the registration flow by replacing the link verification with OTP. Extended multiple services and related packages by adding additional security covering edge cases.
  - Wrote billing service so the customers and other third parties could use the API for different kinds of bills.
  - The tech stack in my daily job is Golang, Go-kit, Docker, MySQL, Make, Linux, Delve Debugger, and Postman.
- Backend Architecture****Microsec.ai****Dec 2022 - Feb 2023**
  - 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.
  - It was a temporary part-time contract project.
- Software Engineer****Siemens DISW****Feb 2020 - Mar 2022**
  - Added AWS and Azure support in the IoT Edge solution for MQTT protocol using the AWS and Azure SDK. That involves device authentication, provisioning, and data sending. Wrote unit tests for the code.
  - Wrote a complete test automation framework using Python for unit testing for the IoT Framework which would be deployed in Jenkins. Added features in other automation software that are deployed with Jenkins.
  - Worked with Debian Linux and Yocto Linux builds from the code till the release build. Build, and debug the Linux images and deploy the IoT framework on them, etc.
  - The Tech stack in my daily job was Golang, Python, Docker, C, GCC Debugger and other debugging tools, make, Cmake, Linux, virtualization, Delve Debugger, and other debugging tools.
- Parttime Python Project****TechBay****Nov 2020 - Jan 2021**
  - A temporary part-time aid in adding vendor app features to bring in additional business.
  - The Halidai app was a social media app similar to TikTok after this feature users with vendor profiles could now lend products to users.
  - I wrote a Django app that used CDN for media file storage and MongoDB for vendor data management. The Frontend of the vendor dashboard was done in HTML, CSS, and Bootstrap, and the Backend with Python and Django.
  - Python, Django, Hapi JS, MongoDB, and Git were the technologies I used daily.
- Temporary Contractor****Punch Group****Dec 2019 - Jan 2020**
  - A temporary part-time contract based on resolving the ongoing issues and removing the blockers.
  - Implemented the card frontend logic in [Skipify](#) using React JS.
  - Wrote a Flask web app or microservice along with the frontend for the sales team to interact with the lead generation which automated manual workflow of file generation and handing overs.
  - 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 in daily work was Python, Flask, ReactJS, NextJS, Docker, and GraphQL.
- Software Engineer Intern****Maher Inc****Dec 2018 - Mar 2019**
  - Fixed UI problems and bugs in [Stylemepretty](#) using React JS, and HTML.
  - I was responsible for a live financial dashboard. Live data of POS (point of sales) was stored in databases. The dashboard with technical details charts and statistical tools had to help the analytics to make good decisions and grow the business. I Added support for data exportation in the backend service by writing the endpoints using Python, Django, and in the front end using Angular JS.
  - Added APIs for stats in the backend and added charts in the front end.
  - My improvements made the dashboard more analytical and practical for the analysts, providing clean data, statistics, different types of charts, and much more detail through the dashboard.
  - Tech stack in my daily job was Python, Django, Angular JS, React JS, HTML, CSS, Echart JS, Pandas, and Docker.

## SKILLS

**Programming Languages:** Python, Golang, JavaScript(ES6), Rust, C, TypeScript, (bash-scripting)  
**Web:** Django, Flask, Gin, Go-kit, React JS, NextJS, HTML/CSS, Bootstrap, Material-UI, Angular JS, Chart JS  
**Other tools and techs:** Git, Docker, Kubernetes, MongoDB, Redis, MySQL, RabbitMQ, HTTP, gRPC, MQTT, Cmake, Graphene, Pandas, Jinja2, Agile development, GraphQL, Azure, AWS, Lambda, Github-actions and workflows.

## EDUCATION

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