Momina Babar

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Location: Islamabad, Pakistan

Academic Qualification
2017-2021 Bachelors of Computer Science, COMSATS University Islamabad, **CGPA: 3.77** Bronze Medalist

Professional Experience
Software Engineer | Auxcube | Jan 2022 - Present
As part of Auxcube, worked on the service company clients' projects as well as the company's internal products, and contributed to building up the startup which involved recruitment, streamlining processes.
- **RX Advocate | Tech-stack: React, Material, React Query, Typescript, Firebase, Spring Boot, Python, Swagger, Firebase, Redis, Google Analytics, Rollbar**
  - Architected and developed a mobile-first application related to US citizens' healthcare. Established a feature-toggle system that allowed enabling/disabling of any feature/ widget/page from the server side.
  - Transformed a core SQL procedure into a Python script, optimizing performance by 5x through multiprocessing and batching.
  - Wrote a common python package to encompass all common utilities. Integrated tests for all data projects using pytest
- **Enterprise Resource Planning Application| Tech-stack: Remix, Typescript, Next UI**
  - Built a customizable ERP application where each service functions as an independent module, allowing tenants to opt for specific features. Implemented the Accounting module that handles organization reimbursements and payroll with adherence to double-entry accounting principles.
  - Implemented the feature to create cheque templates using an intuitive drag-drop of fields on cheque images of users' choice. Using these templates, ready-to-print cheques can be generated for reimbursement/payroll.

Analyst Software Engineer | Afiniti | Mar 2021 - Dec 2021
- **Chatbots Framework | Tech-stack: Next JS, Typescript, Chakra UI, Nest JS, Rasa, Docker**
  - Full-fledged typescript application to create, train and deploy chatbots on multiple channels.
  - Implemented the feature so users can build dialog flows by constructing flowcharts using drag-drop action.
- **Central SNMP Agent | Tech-stack: Next JS, Typescript, Chakra UI, Apollo Client, Spring Boot**
  - As Afiniti has clients in different regions of the world with restricted access, developed a central SNMP Agent to change configurations for all clients. Implemented functionality to monitor/update the database, RAM, and Memory of client servers on the frontend portal using SNMP set.
- **Discussion Forum| Tech-stack: React JS, Typescript, Apollo Client, Spring boot, Postgres, NodeBB**
  - Extended Nodebb, an open-source tool, to develop a discussion platform for Avaya (Afiniti's Partner)

Technologies
React JS Typescript HTML/CSS Node JS Docker SQL Java Python Git

Side Projects
- **Mock Progress |** NPM Package | link
  - A type-safe package allows users to mock progress on the front-end.
- **Class Diagram Maker** | Next JS Application | link
  - An easy-to-understand interface to design class diagrams using drag and drop.
- **Clean Roomby (FYP)** | Raspberry pi Application | link
    A react native application that allowed users to connect to a Raspberry pi Robot to navigate and command to clean the home. The user can also monitor the house using a camera attached to Robot.