

# SAALIK MUBEEN

Baramulla 193101, Jammu and Kashmir, India

✉ [salikmubien@gmail.com](mailto:salikmubien@gmail.com)  [linkedin.com/in/salikmubeen](https://linkedin.com/in/salikmubeen)  [github.com/salikmubeen](https://github.com/salikmubeen)

## Technical Skills

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**Frontend:** HTML, CSS3, JavaScript, Typescript, SASS, React, Redux, Redux Toolkit, Next.js, Gatsby, Apollo Client, RxJS, React Query, Tailwind

**Backend:** Nodejs, Express.js, Go (Golang), Python, Django, REST APIS, GraphQL, TypeGraphQL, NGINX, gRPC, django-rest-framework, graphene-django, Apollo Server, GraphQL-Yoga

**Databases:** MySQL, PostgreSQL, MongoDB, Redis, Firebase, Mongoose, TypeORM, Prisma

**Testing:** Unit testing, Integration testing, Jest, Enzyme, Mocha, Chai, Supertest, React Testing Library, Puppeteer, Cypress

**App Development:** React Native, Expo, Electron.js

**DevOps:** Git, Docker, Kubernetes, CI/CD, Travis CI, AWS (EC2, ECS, S3, Lambda, API Gateway, DynamoDB, Cloudformation, Elastic Beanstalk, SNS, SQS, IAM, VPC, Route53, RDS, CloudFront, KMS), Vercel, Netlify, Heroku

**ML/AI:** Pytorch, Matplotlib, Pandas, Numpy, scikit-learn, CNNs, RNNs

**Areas of Interest:** Microservices, Micro-frontends, Distributed Systems, Application Containerization, Software Engineering, Database Design, System Design, Design Patterns, Architectural patterns

**Other Skills:** Data structures and Algorithms, DBMS, OOP, Linux, Web Sockets, WebRTC, SOLID Design Principles, Fullstack Engineering, JWT, OAuth, Googling

## Experience

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### Arpari

July 2022 – Dec 2023

FullStack Software Engineer

New York, USA (Remote)

- As a founding engineer at Arpari(a treasury management fintech platform), played a pivotal role in the company's growth and success by delivering seamless and robust solutions. Led software architecture design, development, and team leadership on both backend and frontend.
- Demonstrated proficiency in **Python, Django, Django Rest Framework**, and **MySQL** for backend development. Developed APIs enabling users to make payments and pull funds from External Bank Accounts into Arpari Bank Accounts via a Payee Portal, ensuring efficient treasury management for the commercial real estate industry.
- Integrated multiple third-party banking solutions and expanded the platform beyond internal bank accounts like **Unit** to include and incorporate external accounts like **Finicity**, and **Plaid**. This enhancement improved user account management and contributed to a **23% increase in global revenue** in the first quarter.
- Led the transition from Django templates to a client-server architecture using **React.js** and **react-router-dom**. Empowered users with a seamless highly responsive single-page application experience, **eliminating unnecessary page reloads** and providing instant visual feedback on POST actions.
- Spearheaded codebase refactoring from class-based components to **React hooks** and **React Context API**. This resulted in significantly **improved code reusability, maintainability, and readability**.
- Utilized **React.js**, **Ant Design**, and **CSS** to create intuitive and visually appealing user interfaces, dashboards, and graphs, enhancing the overall user experience and driving customer satisfaction.
- Implemented performance optimizations on the backend, leveraging efficient database management and backend techniques like pagination, light weight serializers and priority GET. This resulted in a **>= 60% decrease in load times** and **improved overall system efficiency**.
- Successfully collaborated with a global team while working remotely from India, Asia

### Self Employed

June 2021 – July 2022

Independent Software Consultant

- Assisted numerous local and global startups in **scaling** their software solutions, ensuring robust and efficient systems.
- Transitioned multiple platforms to client-server architecture using React.js and Next.js, creating seamless single-page applications and significantly enhancing user experience.
- Motivated and guided teams in migrating from REST APIs to GraphQL, **resolving latency issues** by **optimizing data fetching strategies** with TypeGraphQL and Apollo Client.
- Architected **scalable** frontend React applications using Redux and Redux Toolkit, enhancing state management and **improving performance** for various clients.
- Developed cross-platform mobile applications using React Native and Expo, delivering consistent and intuitive user experiences across devices.

## Projects

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**TalkHouse** | *React.js, Node.js, MongoDB, Redux, Typescript, Material UI, webRTC, socket.io, Docker, docker-compose*

- Developed TalkHouse, a cutting-edge WebRTC based peer-to-peer video calling and realtime messaging web app, leveraging the MERN stack.
- Implemented essential features, including token (JWT) based user authentication and authorization, audio and video chat capabilities, online indicators, and typing notifications.
- Introduced collaborative features such as the ability to send and accept invitations, as well as screen sharing functionality for users to share their screens during video calls.
- Added recent features like group chats similar to WhatsApp, allowing users to create and participate in group conversations. Also introduced the ability to remove friends and host **TalkHouse Spaces**, reminiscent of Twitter spaces, facilitating real-time discussions enabling users to join with video or audio.
- Dockerized the entire application for ease of local deployment.
- Deployed the server on Heroku, utilized MongoDB Atlas for the database, and hosted the frontend on Netlify.
- Achieved notable recognition on GitHub with more than **120 stars** and **20 forks**.
- Garnered a user base of over **1000 registered users** actively utilizing the app.

**Ticketing** | *Next.js, Express, MongoDB, Typescript, Jest, Docker, Kubernetes, NATS Streaming, Stripe*

- Created an event-driven microservice architected e-commerce web app based on distributed systems principles.
- The app is divided into 7 services, each handles and implements a specific feature and functionality of the app. If any of the service goes down say the payments service, the other parts and features of the app will still be functional and running due to the distributed, event driven and microservices architecture.
- Utilized Docker containers managed by Kubernetes for seamless deployment and orchestration. Implemented NATS streaming as an event bus or message broker to facilitate communication between services. Adopted Jest and supertest for effective unit testing.
- Applied object-oriented programming practices, including inheritance, abstraction, and the use of interfaces and abstract classes. This resulted in the creation of reusable software components and classes, enhancing the maintainability and extensibility of the system.
- Achieved notable recognition on GitHub with more than **500 stars** and **28 forks**.

**PaperHouses** | *React, TypeScript, Ant Design, GraphQL, Apollo Client, MongoDB, Apollo Server Express, OAuth*

- Led the development of PaperHouses, an Airbnb-like web application, that helps people rent out their property, house and apartment and earn money.
- Integrated Google OAuth for secure user authentication and authorization. Utilized Stripe for seamless payment handling, ensuring secure and reliable transactions.
- Developed a real-time chat system using GraphQL Subscriptions, enabling direct communication between hosts and tenants. Created a robust and comprehensive review and rating system. Designed and implemented a search functionality, enabling users to find listings and rentals based on location and refine results by price and ratings.
- Leveraged Mapbox to display detailed maps, enhancing the user experience and providing valuable location information.
- Received more than **35 stars** and **7 forks** on GitHub.

**WhatsApp Lite** | *React Native, Expo, TypeScript, Redux Toolkit, React Navigation, Firebase*

- Developed an open-source mobile chat application using React Native, Expo, TypeScript, and Firebase, replicating key features of WhatsApp.
- Implemented features, including user authentication and authorization, real-time chat functionality for both one-on-one and group conversations, and media sharing capabilities allowing image uploads in chat and status updates.
- Replicated WhatsApp features such as real-time message management (deletion, reply, editing), message seen status with blue ticks, and a comprehensive list of users who viewed messages in group chats.
- The repository received more than **30 stars** and **7 forks** on GitHub, reflecting positive community engagement.

**saalik.me** | *Next.js, TypeScript, CSS Modules, Firebase, Spotify API, Prettier*

- Developed a personal website cum portfolio showcasing my skills, passion, interests and achievements using the Next.js framework, TypeScript, CSS Modules and Firebase.
- Integrated Spotify API to display real-time information about my currently listening song, Spotify music activity, recent played songs, all-time favorite tracks, and current favorite tracks.
- Leveraged Firebase's Realtime Database to store and manage profile visits and view counts, providing valuable insights into user engagement. Achieved a successful reach of over **40,000 overall profile visits** and counting.
- Utilized GitHub's API to retrieve details about my repositories and open-source contributions, highlighting my active involvement in the development community.
- Implemented a user-friendly blog feature with toggle functionality to enable users to switch between dark and light modes, enhancing the user experience and personalization options.

## Education

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**National Institute of Technology, Srinagar**

*Bachelor of Technology, B.Tech in Civil Engineering*

**India**

*Hazratbal Srinagar, J&K*