Abdul Rehman Aziz

yestisabdi@gmail.com

abdi-z abdi-z abdi-

Time Zone: UTC +5:00   **Ph#:** (+92)-3030919982

EDUCATION

Comsats University, Islamabad   Lahore, PB

Bachelor of Science, Computer Science   July 2019

IEEE-CUI IAS Media Director

Final Year Thesis

- Worked in a team under the supervision of university researchers to implement a custom **Neural Style Transfer** architecture in the domain of Image-Based Artistic Rendering(IB-AR).
- Implemented the custom architecture of NST by replacing Gram matrices for style extraction and instead proposed a different way to extract style (Feature map co-relation).
- Developed a web-application that allows users to beautify their images by stylizing them using different aesthetic filters by leveraging our model.
- Supports multi-server architecture, implemented a public standalone API for stylization, secured by rate limited routes.

Relevant Coursework: Web Technologies, Databases, Computer Networks, Mobile App Dev, Object Oriented Programming.

SKILLS

Backend: .NET Framework, .NET Core, NodeJS, Express, AWS, Azure, GCP, Entity Framework, Apache Kafka, RabbitMQ.

Frontend: React, Redux, Angular, UI Libraries (Material & Chakra UI), Webpack, Babel, Gatsby, NPM, React router, Jest.

Misc: APIs (REST, GraphQL), AWS, Azure Services, Agile Methodologies (Scrum, Kanban), TDD , CI/CD, JIRA, Containerization: Docker, Kubernetes, Git

EXPERIENCE

Devsinc | Senior Software Engineer   Nov 2021 — Present

- Led the migration process of a server side rendered .NET application to a React standalone client, leveraging deep expertise in React framework, its concepts, and best practices.
- Developed a comprehensive migration strategy, outlining the step-by-step process of transitioning the .NET application to a React standalone client, while ensuring minimal disruption to the existing functionality.
- Implemented a custom API layer by developing interceptors to embed custom headers, sessions and token management ensuring secure user experience. Integrated the application with **GraphQL** APIs, utilizing tools like **Apollo** Client and **Relay** to manage data fetching, caching, and real-time updates in an efficient and scalable manner.
- Worked on building a Progressive Web Application for the project, leveraging React features like service workers, caching strategies, and manifest files to enable offline capabilities and provide an app-like experience to users.
- Implemented error monitoring and logging solutions, leveraging Sentry and **LogRocket**, to track and analyze application errors, exceptions, and user interactions, facilitating bug identification and resolution.
- Extensively collaborated with the design team to migrate to the new react look. Optimized the application performance through techniques like **memoization**, **virtualization**, **lazy loading**, and **code splitting**, ensuring smooth user experiences even with large datasets or complex **UIs**.
- Utilized performance monitoring tools, such as **Lighthouse** and **WebPageTest**, to assess and optimize the performance of app, identifying and resolving bottlenecks and improving overall user experience.
- Refactored the configurations and implementations of the controller according to the new fronted client app.
- Lowered bugs by **67%** in multiple features as well as reduced features completion time from **55 to 38** days and accomplished user review rating of **93%** positive feedback.

Techlogix | Software Engineer   Aug 2020 — Nov 2021

- Collaborated with the team to revamp flagship product **Campus On Cloud** of **Almusnet**, subsidiary of Techlogix.
- Developed and maintained **RESTful APIs** using .NET Core Web API, implementing efficient data retrieval, manipulation, and integration with frontend applications and third-party services.
- Utilized object-relational mapping **(ORM)** frameworks, such as Entity Framework and Dapper, to simplify database access, improve code maintainability, and ensure database abstraction and data integrity.
- Implemented secure authentication and authorization mechanisms using frameworks including JWT and OAuth, ensuring data privacy and access control for API endpoints and resource.
- Used multiple AWS services including but not limited to **SNS**(Simple Notification Service), **SQS**(Simple Queue Service), **API** Gateway, **EC2** instances and **S3** Buckets for storage.
- Leveraged Azure **CI/CD** pipelines to automate the workflow of the product. Designed the duo-pipeline architecture of Campus On Cloud by isolating building and testing in the Continuous Integration pipeline and deploying to testing, developing and production environments in the Continuous Deployment pipeline whilst also automating jobs using Jenkins,
- Proactively refactored and optimized the existing codebase, improving code quality, readability, and maintainability. Actively sought opportunities to learn new technologies, frameworks, and best practices to enhance skills and contribute to the team's growth.
- Implemented encryption mechanisms, such as **AES** (Advanced Encryption Standard) and **SSL/TLS**, to secure sensitive student data both in transit and at rest, preventing unauthorized access and data breaches as well as implemented role-based access control (**RBAC**) and user authentication mechanisms to restrict access to student records based on predefined user roles and permissions. This ensures that only authorized personnel can view and modify student data.
- The project resulted in the generation of revenue of over total **$150,000 +** in the sales of subscription bought by the overseas educational institutes**,** whilst the time I was there.
- Contributed to quality assurance, improving coverage by writing integration and functional tests for **83%** of total features.

Systems, Ltd | Associate Software Engineer   Sep 2019 — July 2020

- Developed and maintained banking applications using **.NET Core**, adhering to industry standards and best practices for secure and reliable software development.
- Worked in an Agile development environment, actively participating in sprint planning, daily stand-ups, and sprint reviews, to ensure iterative and timely delivery of banking projects.
- Integrated various Azure cloud services, such as Azure **App Service**, Azure **SQL Database**, Azure **Storage**, and Azure **Functions**, to leverage the power of cloud computing and enable scalable and resilient banking applications..
- Implemented security measures and compliance standards specific to the banking industry, including data encryption, access controls, multi-factor authentication, and adherence to regulatory frameworks like PCI DSS and GDPR.
- Integrated with payment gateway **APIs** to facilitate secure payment processing within banking applications, ensuring seamless financial transactions and adherence to industry standards.
- Integrated banking applications with core banking systems, such as **Oracle FLEXCUBE** and **Temenos T24**, to enable real-time data synchronization and seamless integration with existing banking infrastructure.
- Implemented data privacy measures, including data masking, anonymization, and secure storage techniques, to protect sensitive customer information and comply with data protection regulations.
- Developed and consumed **APIs** to integrate with external systems, such as payment gateways, third-party data providers, and banking services, enabling seamless data exchange and enhancing application functionality..
- Conducted unit testing, integration testing, and participated in quality assurance activities to ensure the reliability, functionality, and security of banking applications.
- Prepared technical documentation, including system architecture, design documents, user manuals, and release notes, facilitating knowledge sharing and ensuring effective project management.
- Kept up-to-date with emerging technologies, trends, and best practices in the banking industry, actively seeking opportunities to learn and innovate, contributing to the growth and advancement of the team.

Hobbies: Chess, Travelling, Hackathons, Technology Exploration, Mentoring/Teaching.