# Ali Hassan Mughees

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## EDUCATION

**Govt. College University**                                    Faisalabad, Punjab
*Bachelor of Science in Computer Science*                      *Sep. 2019 – Oct 2023*

**Jinnah College of Science and Commerce**                              Gojra, Punjab
*FSC - Pre Engineering*                                       *May. 2016 – June 2018*

## EXPERIENCE

**Associate Software Engineer**                                 Jan 2024 – Present
*DictaLabs*                                                    *Lahore, Punjab*

- Led front-end development for vScrawl an advanced document signing application using Angular and TypeScript to enhance user experience.
- Built document annotation and signing modules using React.js and Tailwind CSS, implementing signature workflows, drag-and-drop fields, and dynamic form rendering.
- Developed and deployed a cross-platform digital signature mobile app using Flutter and Dart, enabling seamless signing on both Android and iOS devices.
- Developed and optimized UI components ensuring smooth data-binding, state management, and dynamic interactions.
- Implemented RESTful API integrations enabling real-time data updates and seamless user interactions.
- Enhanced application performance by 30% optimizing change detection, asynchronous operations, and DOM rendering.
- Applied responsive design principles and custom styling techniques to ensure cross-device compatibility.
- Collaborated closely with back-end teams to align UI functionality with business logic.
- Maintained high code quality resolving over 80% of maintainability issues using ESLint and check-style tools.

## PROJECTS

**vScrawl** | **Angular Web App** | *Angular, TypeScript, Java, Spring Boot, REST APIs, MySQL*

- Engineered a digital signature application employing cryptographic methodologies for secure and legally binding digital signatures.
- Contributed to the conceptualization and implementation of core microservices, ensuring scalability, flexibility, resilience, and reliability
- Collaborated on seamless integration of RESTful APIs for real-time data updates and ensured consistency across services and the UI.
- Performed rigorous testing and crafted automation test scripts to enhance testing efficiency and facilitate automated regression testing.
- Enhanced application performance and responsiveness by optimizing key components and applying efficient state management techniques.

**Document Viewer** | **React Web App** | *ReactJS, javaScript, Tailwind, REST APIs, MySQL*

- Designed and implemented a digital document signing application with support for both self-sign and multi-sign workflows.
- Built a drag-and-drop document viewer with interactive annotation fields, including resizable and repositionable signature, name, and checkbox components.
- Integrated a signature capture dialog supporting three input methods (Upload, Draw, Type), converting all signatures to base64 PNG for backend compatibility.
- Dynamically loaded and rendered user signatures in annotation fields without layout distortion using canvas processing and responsive image scaling.
- Leveraged React DnD for field interactions and controlled overlays, ensuring smooth UX and strict boundary adherence during document editing.
- Implemented real-time backend communication for recipient management, workflow progress, and secure field persistence via REST APIs.

**vScrawl | Mobile App** | *Flutter, Dart*

- Engineered a mobile application for digital signatures, leveraging Flutter's cross-platform capabilities for both iOS and Android devices.
- Designed and implemented seamless UI/UX, ensuring optimal performance across devices and platforms, following material design principles.
- Integrated backend for user authentication and real-time data synchronization, enhancing user experience and data consistency.
- Developed REST API integrations for real-time data updates, ensuring smooth communication between mobile app and backend services.
- Optimized application performance by using state management solutions and efficient database queries.
- Implemented rigorous testing with unit and widget tests to ensure code reliability and stability across different device configurations.

**FYP | Electronic Voting System** | *PHP, MySQL, HTML, CSS, JavaScript*                    March 2023 – Aug 2023

- Developed core functionalities including user authentication, vote casting, result tallying, and data storage.
- Utilized PHP to create dynamic web pages and handle form submissions securely.
- Implemented a MySQL database to manage user data and voting records, ensuring data integrity and security.
- Integrated front-end technologies (HTML, CSS, JavaScript) for a responsive and user-friendly interface.

## TECHNICAL SKILLS

**Languages**: TypeScript, Dart, JavaScript, HTML/CSS, PHP, C/C++
**Frameworks**: Angular, Flutter, Spring Boot, React.js, WordPress, Material-UI
**Developer Tools**: VS Code, Andriod Studio, IntelliJ, GitHub, Jenkins, Postman, MySQL
**Libraries**: Angular CLI, RxJS, Angular Material, NgRx, Tailwind, Bootstrap, Quill, DOMPurify