Huzaifa Kashif

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SUMMARY

- **Education**: Bachelor's degree in computer science from the **Institute of Business Administration (IBA)** Karachi, Pakistan.
- **Software Development Life Cycle**: Participated in the entire **SDLC** in university projects and personal projects, including writing clean code, conducting code reviews, writing documentation, unit/integration tests, manual testing, and identifying issues and resolutions.
- **Full Stack Development**: Experience in **Full Stack** development, including **Front-end**, **Back-end**, and **API** development.
- **Front-End Frameworks**: Experience with **ReactJS**, and **NextJS**.
- **Back-End Frameworks**: Experience with **NodeJS** (**Express**) and **FastAPI** (**Python**).
- **Front-End Development**: Experience with **HTML5** and **CSS3** to build responsive web designs.
- **Programming Languages**: Proficient in **JavaScript**, **Python**, and **Java.**
- **RDBMS**: Familiarity with Relational Database Management Systems, including **Microsoft SQL(MSSQL)**, **MySQL** and **PostgreSQL**.
- **Query Languages**: Skilled in **SQL**, including writing queries.
- **MongoDB**: Experience working with **MongoDB** and using **Mongoose**.
- **Version Control**: Experience with **Git**.
- **Clean Code Practices**: Able to build end-to-end scalable projects using reusable components and **SOLID** principles.
- Know the importance of **Optimization**.
- **Problem Solving**: Skilled at solving complex problems through debugging and optimizing code for performance and readability.
- **UI/UX**: Understanding of working with **UI/UX** design using **Figma**, converting designs into code.
- **Testing**: Experience with **Unit** testing and integration**.**
- **Test-Driven Development**: Understanding of working in a test-driven development environment.
- **REST APIs**: Knowledge of developing and using **REST APIs**.
- **Middleware**: Experience with **Express** middleware.
- **HTTP**: Familiar in handling **HTTP** requests and responses, and performing **CRUD** (Create, Read, Update, Delete) operations.
- **Data Validation**: Experience in using data validation in **Data Modeling**.
- **Authentication**: Experience in setting up user authentication and login using **JSON Web Token** authentication.
- **Cross-Functional Teams**: Eager to participate in cross-functional product teams to develop and deploy new features and applications.
- **IDEs**: Proficient in IDEs including **Visual Studio Code**.
- **Debugging**: Experienced in debugging and know its importance in development.
- **API Testing**: Experienced in testing **APIs** using **Postman**.
- **Presentations**: Experienced in giving professional presentations.
- **Passion for Technology**: A passion for technology and software development with an eagerness to tackle any problem.
- **API Integrations**: Implement API integrations with third-party APIs or services.
- **Troubleshooting**: Troubleshoot and resolve technical issues by any means.
- **Package Managers**: Experience with package managers like **PIP** and **NPM**.
- **OOP Concepts**: Experience with Object-Oriented Programming concepts.
- **Data Structures and Algorithms**: Experience working with **Data Structures** and good understanding of algorithm

optimization and **Time Complexity**

- **Information Security:** Familiar with information security best practices and core concepts such as authentication, authorization, encryption, and threat mitigation.
- **Agile Methodology**: Understanding of working in **Agile Environments** using **SCRUM** methodology.
- Collaborative team player with experience working in cross-functional groups to achieve project goals.
- Able to contribute effectively in team environments, ensuring smooth coordination and shared success.

WORK EXPERIENCE

Robotics Process Automation Developer
Saints Technology and Services – Remote   **July 2022 – March 2023, Dallas, TX, USA**

Responsibilities:
- Collaborated with the team to design, develop and implement automated solutions for client processes.
- Responsible for running and monitoring RPA bots on client provided data to provide results on time while maintaining operational efficiency.
- Conducted thorough error handling, debugging, and troubleshooting to ensure seamless bot functionality.
- Led and participated in regular client meetings, gathering requirements and providing technical insights.
- Identified and resolved reported bugs, ensuring software reliability and user satisfaction.
- Troubleshoot and resolve technical issues, applying problem-solving skills to provide results on time and maintain client satisfaction.

EDUCATION

Bachelor of Science Computer Science
Institute of Business Administration (IBA) • Karachi, Pakistan
August 2020 – December 2024

O and A levels
Beaconhouse School System • Karachi, Pakistan
August 2016 – May 2020

SKILLS

Python | Java | React.js | Next.js | Node.js | NPM | Express | Git | JavaScript | TypeScript | SQL | NoSQL MongoDB | Mongoose | Database Management | HTTP Requests | UI/UX Design | CSS | Responsive Web Design | Tailwind CSS | JSON | VSCode | Robotic Process Automation | UiPath | RESTful API | PowerBI Network Data Analysis | Figma | Agile | Scrum | Technical Documentation | Information Security | OOP | Data Structures and Algorithms

PERSONAL PROJECTS

Natours: NodeJS | Express | JavaScript | MongoDB | HTML | CSS

Introduction: Natours is a full-stack web application built as part of a learning journey through Jonas Schmedtmann's Udemy course. The project simulates a tour booking platform where users can view and book different tours. As a beginner, this project helped me understand the fundamentals of backend web development and how different technologies work together to build a complete application

Objective: The goal was to build a real-world application using Node.js and MongoDB. Through this project, I learned how to structure a backend project using the MVC pattern, create RESTful APIs, and implement secure user authentication.

Tech Stack:
- **Backend:** Node.js, Express.js
- **Database:** MongoDB with Mongoose
- **Authentication:** JSON Web Tokens (JWT)
- **Other Tools:** Postman for API testing

Features Implemented:
- User signup, login, and role-based access control
- RESTful API with CRUD operations
- Advanced filtering, sorting, and pagination of tour data
- Data validation and error handling
- Image uploading and processing
- Secure routes with authentication and authorization middleware

Learning Highlights:
- Learned how to set up an Express server and organize code using MVC architecture
- Gained hands-on experience working with MongoDB and Mongoose for data modelling
- Understood how to secure APIs using JWT authentication
- Practiced testing APIs with Postman and debugging errors efficiently
- Strengthened my backend development skills
- Helped build a strong foundation in building APIs, working with databases, and deploying real-world applications.
- Improved my understanding of how professional web apps are structured and maintained.

ARTO: NodeJS | Express | JavaScript | MongoDB | Python | HTML | CSS

Introduction: ARTO is an online store for face makeup products developed as our Final Year Project. The main idea was to allow users to try on makeup products virtually using augmented reality (AR) before making a purchase. This helps customers make better buying decisions from the comfort of their homes without physically testing the products.

Objective: The goal was to combine web development with computer vision to create a smooth and realistic virtual try-on experience. We wanted to improve user satisfaction by allowing them to preview how makeup looks on their own face in real time.

Tech Stack:
- **Frontend:** HTML, CSS, JavaScript
- **Backend:** Node.js, Express.js
- **Database:** MongoDB
- **AR & Computer Vision:** Python, OpenCV, Mediapipe
- **Project Documentation:** Software Requirements Specification (SRS), Software Design Document (SDD)

Features Implemented:
- Real-time face tracking and facial landmark detection
- Augmented reality engine for applying virtual makeup (lipstick)
- Interactive product catalogue with try-on option
- Smooth overlay of makeup on live webcam feed
- User-friendly interface for browsing and purchasing
- Structured documentation for clear development process

Learning Highlights:
- Gained experience using Mediapipe and OpenCV for real-time face tracking
- Understood how to apply AR overlays in a browser environment
- Strengthened skills in full-stack web development and teamwork
- Created professional-level documentation for better project planning and execution
- Developed both technical and teamwork skills through the planning, building, and presentation stages of the project.