

MUHAMMAD IBTISAM TANVEER

Germany

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Education

Technical University Of Chemnitz

Masters in Web Engineering

Oct 2024 – Present

Chemnitz, Saxony

National University Of Technology

Bachelor of Science in Computer Science

Oct 2018 – Oct 2022

Islamabad, Pakistan

Relevant Coursework

- Data Structures
- Database Management
- Systems Programming
- Software Engineering
- Artificial Intelligence
- Computer Architecture
- Algorithms Analysis
- Object Oriented
- Distributed Systems

Experience

Gigalabs (Pvt) Ltd.

Software Engineer

Nov 2022 – Sep 2024

Lahore, Pakistan

- Developed a service to automatically perform a set of unit tests daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues.
- Optimized database schemas and API endpoints, achieving a 40% boost in system performance.
- Collaborated with cross-functional teams to deploy new features, increasing user productivity and reducing task completion time by 30% .
- Spearheaded the integration of reusable modular components, reducing development timelines by 25%.

Sui Northern Gas Pipelines Limited

Application Development Intern

Aug 2021 – Oct 2021

Lahore, Pakistan

- Assisted in development of the front end of a mobile application for iOS/Android using Dart and the Flutter framework.
- Worked with Google Firebase to manage user inputted data across multiple platforms including web and mobile apps.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Utilized Android Studio as a development environment in order to visualize the application in both iOS and Android.

Projects

Trustworthy AI in Healthcare | *NextJs, Tensorflow, Flask, AWS*

Oct 2024

- Built an AI healthcare tool to mitigate skin tone bias using TensorFlow and Flask.
- Deployed on EC2 with a Next.js frontend for real-time predictions.
- Improved fairness, robustness, and transparency in AI-driven medical imaging.

Pushka Hub | *ReactNative, ROR, Android Studio*

Aug 2024

- Engineered and optimized cross-platform features using React Native, resulting in a 20% increase in app responsiveness
- Collaborated with backend and design teams to deliver seamlessly integrated, user-friendly solutions.
- Improved UI/UX for both iOS and Android, leading to a 10% boost in user engagement metrics.
- Debugged and enhanced app stability, achieving a 30% reduction in crash rates and ensuring secure, high-quality user experiences.

AAT (Wholesale E-Commerce Application) | *ReactNative, Laravel, Android Studio*

May 2024

- Engineered and optimized cross-platform features using React Native, resulting in a 70% increase in app responsiveness
- Implemented product catalog management for handling 10000+ SKUs, including search, filter, and category-based navigation for easy product discovery.
- Optimized user experience with features like wishlists, push notifications, and customer reviews, leading to a 30% increase in conversion rates.

PIMdesk | *Vue.js, ROR, NestJs, Shopify, VSCode*

Dec 2023

- Designed and implemented the frontend interface using Vue.js, seamlessly integrating APIs to facilitate real-time product data management.
- Enhanced platform performance, supporting 10000+ users concurrently without degradation
- Integrated APIs to enable bulk product uploads, dynamic attribute mapping, and image handling for enriched data organization.

- Implemented search, filtering, and tagging features to streamline product discovery and categorization.
- Boosted task efficiency by 25% through drag-and-drop tools, bulk edits, and validation workflows for faster data processing.

CodeLabs | *NextJs, MongoDB, BootStrap*

Aug 2023

- Developed a responsive and dynamic portfolio website showcasing projects and skills, achieving a 30% improvement in page load times through optimized image loading and efficient coding practices.
- Implemented smooth page transitions and animations, enhancing user experience and engagement.
- Utilized Next.js , React, and CSS modules, leveraging modern web development technologies.

Consumer Information App (SNGPL) | *Flutter, MySQL*

Aug 2021

- 50000+ downloads on Google Play Store .
- Utilized Flutter and Provider for state management.
- Implemented location services for field staff, reducing service response times by 30%.
- Designed an intuitive meter reading interface, enabling field teams to complete readings 30% faster.
- Established a system to log and resolve 400000+ consumer complaints monthly.

An Automated Personality Prediction System | *Flutter, Flask, Tensorflow, OpenCV*

Aug 2021

- Developed a hybrid application to predict five key personality traits (OCEAN) using Python, Flask, and TensorFlow, achieving 85% accuracy
- Leveraged computer vision and machine learning techniques to process and analyze 10,000+ videos effectively.
- Optimized model performance, improving processing speed by 20%, enhancing scalability and responsiveness.

Malaria and Cancer Classification System | *Flutter, Flask, Tensorflow, OpenCV*

Feb 2021

- Built a classification model using TensorFlow and Convolutional Neural Networks (CNNs) to detect malaria and cancer from medical images with high accuracy.
- Developed a mobile app in Flutter to deploy the model, enabling users to upload images for diagnosis.
- Integrated the mobile app with the model via a REST API using Python Flask for real-time predictions.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript (ES6+), TypeScript, SQL

Front-End:React/React-Native, Next.js, Vue.js, Flutter, Redux, Vuex, JavaScript (ES6+), TypeScript, MUI, HTML5, CSS3, Tailwind CSS, Responsive Web Design, Cross-Browser Compatibility, Performance Optimization, Figma.

Back-End:Node.js, Express.js, NestJS, Flask, RESTful APIs, Firebase, JWT, OAuth.

Developer Tools: Git, GitHub, GitLab, VSCode, Jira, Postman, Jupyter Notebook, Android Studio, CI/CD Pipelines, Docker, Vercel, AWS (S3, EC2)

Databases:MySQL, PostgreSQL, MongoDB, Firebase.

Machine-Learning: Tensorflow, Matplotlib, Pandas, Sklearn, OpenCv.

Others: Problem Solving, Debugging, Code Review, Unit Testing, Agile/Scrum, Project Management (ClickUp, Jira).

Achievements

President's Gold Medal

Nov 2022

National University Of Technology

Best Capstone Project Certificate

Nov 2022

National University Of Technology