

MUHAMMAD ALI HASNAIN

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EXPERIENCE

FullStack Developer

Sep. 2023 – Jan. 2024

DemocracyLabs

Seattle, WA

- Accomplished seamless **Android** and **iOS** development with **Kotlin Multiplatform Mobile (KMM)** and **Spring Boot**, saving **20%** development time and ensuring consistent behavior across platforms.
- Achieved efficient integration of **Firestore** services, **TensorFlow Lite**, and voice assistant platforms, resulting in a **15%** increase in application functionality and user experience.

Web Application Developer | 📄

May 2023 – Aug. 2023

Manulife

Waterloo, ON

- Developed and led the **CentML** partner website project, resulting in over **5000** lines of code on GitHub. Utilized **HTML** and **CSS** for web development.
- Served as the **Subject Matter Expert (SME)** for release management, responsible for defining pull request templates, implementing code quality tools, and providing documentation and training to the team.

Software Engineer Intern | 📄

Jun. 2022 – Aug. 2022

AirLink Communication

Lahore, PJ

- Developed **over 50** SQL queries in preparation for the company's **IPO**, enhancing data retrieval and analysis for critical financial decision-making.
- Took a central role in the development process of the company's website, created and implemented user interfaces that catered to various screen sizes and platforms. Paid special attention to the user experience (**UX**) and user interface (**UI**).

PROJECTS

AICoach | Python 🐍

Sep. 2023

- Integrated the **OpenAI's ChatGPT 3.5** into a **Python tool**, enhancing user essays by correcting grammatical errors, optimizing synonyms, and refining punctuation.
- Distributed a Python tool through the **PyPI** repository, enabling broader access and ease of installation for developers.
- Implemented **Auth0** for secure email-based login and utilized **Cloud Storage**, streamlining user access and ensuring safe document storage.

Data Engine | Python 🐍

Oct. 2023

- Designed and built an interactive data dashboard, a web application that effectively eliminated the need for manual data entry by providing users with the capability to upload **.xlsx** files
- Leveraged advanced data science technologies, including **Streamlit** for the user interface, **Pandas** for data manipulation, and **Plotly** for interactive graph creation, to create a robust and user-friendly data visualization tool.

TECHNICAL SKILLS

Languages: Bash, Ruby, Javascript, Python, C/C++, JavaScript, HTML/CSS, R, Racket, Kotlin

Frameworks: React, Node.js, NumPy, JUnit, MongoDB, WordPress, Spring Boot

Tools: Git, Netlify, VS Code, Visual Studio, PyCharm, Figma, OOP, Streamlit, TensorFlow Lite, Firebase, AWS

LEADERSHIP AND AWARDS

President's Scholarship of Distinction | Computer Science

Aug. 2022

- Received an award in recognition of being in the highest percentile (**1%**) in Cambridge International A Level for Computer Science.

Co-founder | Imdad

Jun. 2020 – May 2022

- Conducted **50+** lectures and managed CS courses for **300+** underprivileged students, enhancing educational opportunities in rural areas of Pakistan.
- Provided detailed notes and crafted Computer Science degree roadmaps, guiding students towards academic success and clear career pathways.

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science, Minor in Economics (Honors, Co-op)

Sep. 2022 – Aug 2026