Hira Malik

🌐 **Website:** https://my-portfolio-psi-six-60.vercel.app/
🌐 **Website:** https://github.com/hramlk99k
📍 **Home:** Stockholm (Sweden)

ABOUT ME

Versatile **Full-Stack Developer** and **IEEE Published Researcher** with a Master's degree in Computer Science. I specialize in the **MERN stack** and **PHP/CodeIgniter**, with a strong focus on building scalable, user-centric applications. My background bridges the gap between technical engineering and UX/UI design (Figma), backed by a deep understanding of **Agile/Scrum** methodologies. With a proven track record of international collaboration and a passion for sustainable tech solutions, I am eager to contribute to innovative development teams in Stockholm.

WORK EXPERIENCE

🏢 *Vision Consulting Pakistan*

Web application developer

[09/06/2019 – 01/08/2019]

- **Developed dynamic web components** using PHP and the CodeIgniter framework, ensuring clean code and alignment with project specifications.
- **Designed and maintained relational databases** using MySQL and phpMyAdmin, focusing on efficient data structure and retrieval.
- **Front-End Development:** Built responsive user interfaces utilizing HTML5 and CSS3 to deliver high-quality web experiences.
- **Client Correspondence:** Collaborated directly with clients to gather requirements, manage expectations, and translate business needs into technical designs.
- **Training & Proficiency:** Completed an intensive Microsoft Office training module to streamline documentation and reporting workflows.
- **Professional Development:** Managed weekly technical assignments and project milestones under supervisor evaluation, consistently meeting deadlines and increasing productivity.

🏢 *Government Girls High School*

Educator in primary education

[12/08/2018 – 20/08/2018]

- **Instructed** fundamental computer concepts to students, focusing on hardware basics, software navigation, and digital literacy.
- **Developed** and led creative art and technology workshops, bridging the gap between technical concepts and creative expression.
- **Facilitated** a collaborative classroom community, providing a stable and inclusive learning environment that increased student engagement.
- **Supervised** formal examinations and classroom activities, ensuring academic integrity and a productive atmosphere for all learners.
- **Observed and adapted** teaching methods to align with individual student perspectives, improving the clarity of complex technical topics.

EDUCATION AND TRAINING

Master's in computer science CS
Universitets-och hogskoleradet (UHR) [07/2021 – 08/2022]

City: Uppsala | **Country:** Sweden | **Website:** https://uu.se/

Bachelors in Computer Science
Fatima Jinnah Women University [08/2016 – 09/2020]

Address: The Mall, Kachehri Chowk, Rawalpindi (Pakistan) | **Website:** https://www.fjwu.edu.pk/

Higher Secondary School Certificate
Federal Board of Intermediate and Secondary Education [03/2014 – 04/2016]

Address: Sector H-8/4, Islamabad (Pakistan) | **Website:** https://www.fbise.edu.pk/

Secondary School Certificate
Federal Board of Intermediate and Secondary Education [02/2012 – 03/2014]

Address: Sector H-8/4, Islamabad (Pakistan) | **Website:** https://www.fbise.edu.pk/

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English
LISTENING B2 **READING** B2 **WRITING** B2
SPOKEN PRODUCTION B2
SPOKEN INTERACTION B2

Panjabi; Punjabi
LISTENING B2 **READING** B2 **WRITING** B2
SPOKEN PRODUCTION B2
SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Frontend Development

React.js / JSX / c,c++,c# Languages / typescript / Tailwind css / HTML / CSS / PHP Codeigniter / Javascript / Render

Backend Development

Web Programming: HTML, CSS, Javascript (front-end), Java (back-end) / Mongo atlas / mongo compass / Express.js / Node.js / MySQL / MERN stack / MongoDB / REST API / HTML CSS PHP

Design and UX research

LaTeX (basic) / Figma (Intermediate)

Tools and Version Control

responsive web design / Microsoft Powerpoint / Microsoft Word / Microsoft Excel / Google Docs / Trello Board / Microsoft Office Specialist certification: Microsoft Office Word / Visual Studio/Visual Studio Code / Google drive, DropBox, FB, Instagram, Linkedin, Zoom, Skype, Asana, Trello, Slack, HelpScout / Vercel / Git / github / slack / kanban

Core competencies

communication / Cross-functional Teamwork / Oral Presentations / Analytical Problem Solving / Requirements Gathering / Time Management / Adaptability / Project Coordination / Technical Writing / collaboration / Agile & Scrum Methodologies / Peer Code Reviews / Stakeholder Management / Strategic Decision Making / Critical Thinking / Conflict Resolution

PROJECTS

[03/2020 – 09/2020]
Bachelors degree project
- **Developed** a comprehensive job search application using **PHP (CodeIgniter)** and **MySQL**, enabling users to search for and apply to job listings seamlessly.
- **Architected** a relational database to store user profiles, job postings, and application statuses, ensuring data integrity and fast retrieval.
- **Implemented** the **MVC architecture** to maintain a clean separation of concerns, resulting in a scalable and modular codebase.
- **Designed** a user-friendly frontend interface using **HTML** and **CSS**, focusing on simplifying the job application workflow for end-users.

Link: https://drive.google.com/file/d/1hL0BgfxBb8q-nnW9rJOifbsO9T1-HoOc/view?usp=sharing

Ethics in Computing | Researcher
- **Conducted a qualitative study** on the ethical responsibilities of computer scientists, focusing on data privacy, algorithmic bias, and professional accountability.
- **Designed and deployed** digital surveys via Google Forms to collect and analyze data from a diverse group of CS students.
- **Synthesized research findings** to identify key areas where ethical frameworks are needed in the software development lifecycle.
- **Analyzed user perspectives** to advocate for responsible tech practices, demonstrating a deep understanding of the societal impact of computing.

Link: https://drive.google.com/file/d/1StP9cthc2_rWJNoV6OIt3gGj9vY1jz1r/view?usp=sharing

An Online Supermarket application design
- **Engineered a high-fidelity interactive prototype** for an Android application using **Figma**, focusing on a seamless User-Centered Design (UCD).
- **Mapped core user journeys**, including product categorization, wishlist management ("Favorites"), and a dynamic shopping basket system.

- **Architected a 4-step checkout workflow**, optimizing the path from "item discovery" to "order placement" to reduce user friction.
- **Applied HCI (Human-Computer Interaction) principles** to ensure the interface was intuitive, accessible, and followed Android's Material Design guidelines.

Link: https://drive.google.com/file/d/1rfqsH2WMGwTW1z4_5WI9v6dimJKTZ9d-/view?usp=sharing

Dashboard design
- **Engineered an interactive Sales Dashboard** designed for employer oversight, enabling real-time tracking of employee performance and global client engagement.
- **Designed a data-driven UI** that visualizes key metrics for salespersons operating across multiple international territories, focusing on clarity and ease of navigation.
- **Architected a "Managerial Overview" workflow**, allowing employers to drill down into specific client interactions and regional progress reports with a single click.
- **Prioritized UX Simplicity**, ensuring complex sales data was translated into intuitive charts and progress indicators to facilitate fast, informed decision-making.
- **Integrated global variables**, such as country-specific client data and cross-border sales cycles, into a unified and cohesive user interface.

Link: https://drive.google.com/file/d/1kbBDH613e_TEj684EluKK5A9JH8I15Z9/view?usp=sharing

EV Smart-Charging & Grid Optimization for Sweden | UX Researcher & Designer
- **Conceptualized a behavioral "nudging" solution** to mitigate electricity grid stress by incentivizing EV owners to shift charging habits away from peak hours.
- **Designed a multi-channel interface** using **Figma**, including a mobile application UI and public billboard displays to provide real-time grid awareness.
- **Applied Behavioral Economics principles** to create intuitive "nudges" that encourage sustainable energy consumption without compromising user convenience.
- **Presented findings and prototypes** to members of **"Parkering och parkeringsavgifter"**, successfully communicating technical solutions to a board of public infrastructure stakeholders.
- **Evaluated user-centered strategies** for "Peak Shaving," demonstrating a deep understanding of the intersection between Green Tech and User Experience.

Link: https://drive.google.com/file/d/1arYvDIdxp-oSCwVN1BWChOn4WdVEmv0M/view?usp=sharing

Agile Software Development Project | Scrum Team Member
- **Executed a full Scrum lifecycle** in a high-intensity team environment, adhering to 2-week sprints, daily stand-ups, and sprint planning sessions.
- **Collaborated within a defined Scrum structure**, working closely with a Product Owner and Scrum Master to translate business requirements into technical **User Stories**.
- **Managed Product & Sprint Backlogs** using **Trello**, ensuring task prioritization and transparent progress tracking for all stakeholders.
- **Monitored Team Velocity** via **Burndown Charts**, analyzing performance metrics to optimize delivery timelines and resource allocation.
- **Engaged in Continuous Improvement** through weekly **Scrum Retrospectives**, identifying workflow bottlenecks and implementing process refinements.

- **Facilitated "Component Trading":** Managed the "purchase and sale" of software modules with other teams, gaining experience in **modular architecture**, API-style interactions, and inter-team negotiations.
- **Technical Stack:** GitHub (Version Control), Trello (Project Management), Slack (Communication).

Link: https://drive.google.com/file/d/1_41zFurTYhl4_v3FWcc2RduB1OYEg7Kz/view?usp=sharing

[01/09/2025 – Current]
Full-Stack Development | MERN Stack Projects
- **Engineered a suite of MERN stack applications**, focusing on seamless integration between React frontends and Node.js/Express backends.
- **Architected and documented RESTful APIs** to handle complex data operations and user authentication, ensuring secure communication between the client and server.
- **Optimized deployment workflows** by configuring **Vercel** for high-performance frontend delivery and **Render** for reliable server-side execution and database connectivity.
- **Managed environment variables and server configurations** to ensure secure, scalable, and production-ready environments.
- **Tech Stack:** React, Node.js, Express, MongoDB, Vercel, Render, JWT.

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PUBLICATIONS

[2022]
A Study on Bhutanese IT Engineering Students' Perceptions of Plagiarism
- **Co-authored a research paper** investigating student and faculty perceptions of plagiarism within academic environments.
- **Conducted qualitative data collection** through semi-structured interviews via Zoom, managing scheduling and data privacy for all participants.
- **Analyzed complex qualitative datasets** to identify recurring themes and behavioral patterns regarding academic integrity.
- **Presented findings** to an international audience of scholars and professionals in Thailand, demonstrating strong technical communication and public speaking skills.
- **Collaborated in a remote research team** to synthesize findings into a peer-reviewed paper accepted for conference publication.

Authors: Hira Malik; Pawan Kumar Koirala; Yoezer Dema Anders Berglund | **Journal Name**: 7th International STEM Education Conference (iSTEM-Ed) | **Publisher**: IEEE

P. K. Koirala, Y. Dema, H. Malik and A. Berglund, "A Study on Bhutanese IT Engineering Students' Perceptions of Plagiarism," 2022 7th International STEM Education Conference (iSTEM-Ed), Sukhothai, Thailand, 2022, pp. 1-4.

Link: https://ieeexplore.ieee.org/document/9920878