

## BILAL ESSAKINI

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### Profile

Data Acquisition Engineer with hands-on experience designing and developing user-centric, responsive web applications using React.js, JavaScript, HTML5, and CSS3. Skilled in working with RESTful APIs, Git/GitHub, and Agile development methodologies. Passionate about building accessible, high-performing websites and continuously learning modern web technologies. Open to opportunities as a Software Developer or Web Developer in a collaborative and growth-oriented team environment.

### Work Experience

#### Data Acquisition Engineer – Open Signal | Dec 2025 – Present

- Developed and maintained PHP-based web scrapers to collect structured data from multiple websites, ensuring reliability as site structures changed.
- Supported daily data acquisition operations by monitoring scraper performance, resolving failures, and investigating data quality issues to meet SLA requirements.
- Performed testing, debugging, and documentation of code, collaborating with engineering, product, and data quality teams to support ongoing improvements.

#### Web Developer — University of Hertfordshire | Mar 2025 – Nov 2025

- Build and configured web pages using HTML5, CSS3, JavaScript, React, REST APIs, jQuery, XML, and Bootstrap.
- Supporting CMS development and administration (Squiz Matrix 6) and providing staff training.
- Implementing responsive and accessible designs aligned with W3C standards Integrating 3rd party APIs and optimizing SEO and performance.
- Translating stakeholder requirements into scalable, maintainable technical solutions.
- Monitoring site performance, UX testing, and improving user journeys across devices.
- Work closely with UX designers, digital marketers, and IT leads to delivering modern digital experiences that meet the University's 24/7 operational needs.
- Contribute to documentation, stakeholder training, and web accessibility compliance.

#### Graduate Web Developer (Marketing Executive) — University of Hertfordshire | Mar 2024 – February 2025

- Built responsive web pages with React.js, HTML5, and CSS3, increasing user engagement by 40%.
- Collaborated with designers to prototype user-focused interfaces, improving site performance by 30%.
- Integrated REST APIs to display dynamic content, aligning with Agile sprints.

- Improved accessibility by 20%, ensuring WCAG 2.1 compliance.
- Ran performance audits using Google Analytics and DXP, increasing site traffic by 35%.
- Managed CMS workflows using Matrix 6, XML, and JSON.

#### **IT Support — Lewsey Community Centre | Jan 2018 – Mar 2018**

- Resolved technical issues for 50+ users, enhancing system performance and user satisfaction.
- Documented standard procedures to streamline IT support.

#### **Youth Worker — CYCD, Luton | Aug 2017**

- Organized activities for 150+ youths, fostering inclusive team engagement.

## **Education**

#### **BSc (Hons) Computer Science — University of Hertfordshire:**

- Relevant modules: Web Development, Algorithms & Data structure, Artificial Intelligence, Agile, Networking & Security and Database.

#### **Level 3 Diploma in IT — Central Bedfordshire College, 2020**

#### **Level 2 Diploma in ICT Systems Support — Central Bedfordshire College, 2018**

## **Projects**

#### **Portfolio Website**

- Built with React.js, HTML5, and CSS3 (Bootstrap), showcasing personal projects.
- Deployed on GitHub Pages with mobile-first design and dynamic routing. Portfolio website Link: <https://bilal-portfolio-orpin.vercel.app/>

#### **Cinema Ticket Booking Web App**

- Developed front-end in HTML, CSS, JavaScript and backend in PHP and MySQL with integration.
- Implemented secure user authentication and booking workflow.

#### **Face Recognition Attendance System**

- Used Python and OpenCV and scikit-learn for real-time face recognition.
- Built a simple UI for attendance reporting and user interaction using CSV, Panda's library and Excel.

## **Key Skills**

- **Languages & Frameworks:** HTML5, CSS3, JavaScript, jQuery, (ES6+), React.js, Python, PHP
- **Styling:** Bootstrap, Tailwind CSS
- **APIs & Backend:** RESTful APIs, PHP, Python (Django basics), Node.js (basic)
- **Tools:** Git, GitHub, VS Code, CMS (Matrix6), Figma, Agile/Scrum, Jira
- **Databases:** MySQL, PostgreSQL, Oracle SQL
- **Soft Skills:** Problem-solving, Debugging, Team Collaboration
- **Languages:** English, Italian, Arabic