

# chayma bedhiafi

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**Relevant Links:** [LinkedIn](#) | [GitHub](#)

**Programming Languages:** Python, TypeScript, JavaScript, C++, HTML, CSS, SQL

**Frameworks:** React, Node.js, Bootstrap, Sass, NumPy

**Technologies:** Git, JSON, AJAX

**Interfaces and Protocols:** TCP/IP, HTTP/HTTPS

**Certifications :**

**Microsoft Certified: Azure Database Administrator Associate:**

Role: Database Administrator, SQL

**Microsoft Certified: Azure Developer Associate:**

Focus: Front-End Development

## EDUCATION

**National engineering school of Tunisia**

**September 2024**

- Engineering degree in Industrial Informatics

**Faculty of Science, Tunisia**

- Preparatory cycle for engineering studies, specializing in Mathematics and Chemistry, graduated with honors

**September 2021**

## EMPLOYMENT EXPERIENCE

**Product Designer (UX, UI, Research) & Front-End Developer**

**September 2024 - December 2024**

*SWE Internship*

*Tunisia*

- Assisted the team leader throughout the design process : from research to visual prototype (quantitative, qualitative research, validation, prioritization, user journey, service blueprint, creative workshops, prototyping, usability tests ...)
- Designed and delivered interactive, responsive prototypes using Figma, Photoshop, and HTML, focusing on adaptability across Desktop, Mobile, and Tablet devices.
- Specialized in interface design for B2B, B2C, and data-rich dashboards, translating complex requirements into visually clear and actionable designs.
- Developed responsive and performant front-end interfaces using HTML, CSS (Sass), JavaScript, and frameworks like React, delivering clean, maintainable code.
- Utilized tools like Figma and Photoshop to create pixel-perfect designs, high-fidelity prototypes, and production-ready assets, bridging the gap between design and development.

**Front-End Engineer, Upwork**

**September 2023 - August 2024**

*SWE for AI Tooling Team*

*virtual*

- Developed a React-based AI dashboard with Figma prototypes, integrating UX/UI principles and JavaScript for dynamic, responsive interfaces
- designed a React-based user dashboard for an AI application that enabled users to easily navigate complex data visualizations. By leveraging JavaScript to handle dynamic updates, the interface adapted smoothly across mobile and desktop, ensuring consistent performance and accessibility.
- Conducted advanced SQL operations in MySQL, optimizing data flows and ensuring efficient real-time database performance for AI-driven applications.
- Developed a responsive AI web application using TypeScript, React.js, Sass, and Bootstrap, enhancing user experience and facilitating intuitive data visualization across devices.
- Leveraged Chrome DevTools for debugging, efficiently identifying and resolving issues to improve the performance and reliability of web applications.
- Communicated with diverse teams, from data scientists to senior full-stack developers, gaining valuable experience and guidance throughout the development process.

**Engineering University of Tunisia**

**June 2023 - September 2023**

*Research Intern*

*Tunisia, Monastir*

- Developed an internal tool for managing large IoT datasets, utilizing RDBMS for efficient storage and retrieval, and implemented front-end features with JavaScript.
- Designed and optimized data pipelines to ingest and integrate IoT data into a centralized relational database, enhancing query performance and normalization.
- Collaborated with senior developers to ensure seamless integration of JavaScript-based front-end applications with the database, optimizing data models for real-time IoT-driven web platforms .

**Math Instructor**

**Septembre 2021 - Present**

*Tunisia, Monastir*

- Designed and delivered tailored lesson plans focusing on key mathematical concepts such as linear algebra, probability, statistics, and calculus, leading to improved student performance.
- Effectively communicated complex topics, including matrix operations, probability distributions, hypothesis testing, and differential equations, fostering a deeper understanding and application of these principles.
- Collaborated with fellow instructors to create innovative teaching strategies, enhancing student confidence and engagement with math subjects, while maintaining a productive and supportive learning environment.

## PROJECTS

**Creating a REST API with Node.js**

**March 2023**

- Developed a high-performance RESTful API with Node.js, implementing secure authentication and authorization (JWT, OAuth2).
- Documented API endpoints and usage, improving team efficiency.

**Expense Tracker Web Application**

**December 2022**

- Designed and implemented a dynamic Expense Tracker Web Application using HTML, CSS, and JavaScript. Leveraged modern web development techniques, including DOM manipulation and event handling, to create an intuitive user interface.

## LEADERSHIP

- **Co-founder and Vice President of "Coding Space" Club** at the Engineering School of Monastir, actively leading and organizing coding workshops, hackathons, and peer-learning sessions for over a year, fostering collaboration and innovation among students.