Houssem Ben Mabrouk

Software Engineering Student

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Summary

Motivated and detail-oriented Software Engineer with a strong foundation in web and mobile application development. Proficient in Flutter, Next.js, and NestJS, with experience building responsive, efficient, and user-friendly applications. Passionate about delivering clean, maintainable code and learning new technologies. **Currently seeking a full-time or Part-time opportunity as a Junior Software Engineer to contribute to impactful and scalable solutions.**

Education

Ecole Supérieure Privée d'Ingénierie et de Technologies (ESPRIT)	**Tunis, Tunisia**
Bachelor of Engineering in Computer Science	*2019 – 2025*

Skills

Programming Languages:	JavaScript, Kotlin, Solidity, Swift
Frameworks & Libraries:	Node.js, NestJS, React Native, Next.js, Flutter
Databases:	MongoDB, SQL, PostgreSQL
Tools & Platforms:	Docker, Git, Kubernetes, Socket.io
Other Skills:	Responsive Design, Prisma ORM, Smart Contracts

Professional Experience

Elepzia — **Feb 2025 – Jul 2025**
Hackini - Open Innovation Platform — *Tunis, Tunisia*
- Developed a scalable platform to manage hackathons, teams, user profiles, and real-time collaboration.
- Empowered 70% of pilot users to participate in structured innovation programs.
- Addressed Tunisia's 44% graduate unemployment rate and revived 92% of inactive student projects.
- Reduced hackathon project abandonment by 60% through structured scoring and engagement phases.
- Designed for global scalability, addressing 289M+ unemployed youth worldwide.

Technologies: NestJS, Next.js, Prisma, PostgreSQL, MongoDB, Docker, Kubernetes

Zen — **Oct 2024 – Dec 2024**
Outfit Visualization App — *Tunis, Tunisia*
- Built a mobile app allowing users to visualize outfits on uploaded photos, meeting 90% of customization requests.

Technologies: Flutter, Node.js, Express.js, MongoDB, Python

AeroAgri — **Oct 2024 – Dec 2024**
Agricultural Monitoring App — *Tunis, Tunisia*
- Developed a mobile app monitoring soil pH and nutrient levels, addressing 85% of local farmers' needs.
- Implemented AI-based flood prediction algorithms assisting 70% of flood-prone regions with preventive alerts.

Technologies: Python, C++, Flutter, Node.js, Express.js, MongoDB

DiwanaSmart — **Jun 2024 – Aug 2024**
Cross-Border Shopping Platform — *Tunis, Tunisia*
- Created a platform connecting 1,000+ buyers and bringers for streamlined cross-border shopping.
- Implemented escrow-based payments, securing transactions and reducing disputes by 40%.
- Incorporated user profiles and ratings, increasing engagement by 30%.

Technologies: Kotlin, Node.js, MongoDB

InkluZion — **Jan 2024 – May 2024**
Virtual Art Gallery — *Tunis, Tunisia*
- Developed a virtual art gallery used by 60% of surveyed artists for showcasing and NFT-based transactions.

Technologies: Kotlin, Unity, React.js, Blockchain

Eco Link — **Oct 2023 – Dec 2023**
Environmental Events Platform — *Tunis, Tunisia*
- Designed and implemented a mobile app enabling 80% of event organizers to manage initiatives efficiently.

Technologies: Kotlin, Swift, Flutter, MongoDB, Node.js

BIDMASTER   **Jul 2023 – Sep 2023**
Online Bidding Platform   *Tunis, Tunisia*
  – Developed a transparent online bidding system used by 90% of tested companies.
  – Integrated blockchain-based smart contracts to ensure secure and automated fund transfers.
Technologies: React.js, Kotlin, Node.js, MongoDB, Blockchain

Certifications

Hedera Hashgraph Developer Course   **Hedera Hashgraph Academy**
Credential ID: 9e0f82cd-1e12-4a21-aa3a-7d2efcd4b09e   *Jul 2025*

Academic Achievements

1st Place - IEEE CIS Challenge   **Inter-university competition**

1st Place - IEEE AESS Challenge   **Inter-university competition**

Top 600 Global Rank - IEEE Xtreme 15.0

Best CS Chapter in Tunisia (CSTC)

Leadership Roles

Vice Chair - IEEE CS Esprit SBC   **2022 – 2023**

Media Manager - IEEE CS Esprit SBC   **2020 – 2021**

Communication Manager - IEEE CS Esprit SBC   **2021 – 2022**

Vice Chair - IEEE AESS Esprit SBC   **2023 – 2024**

IEEE Brand Ambassador   **2020 – 2023**