

JAODUN MUNTASIR

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EDUCATION

Bachelor of Science (Computer Science)

Faculty of Informatics, Eötvös Loránd University

Budapest, Hungary

Class of 2025

- **Stipendium Hungaricum Scholarship Recipient (2022):** Full-ride government funded scholarship for 3 years of undergraduate studies at ELTE.
- **Thesis:** A Blockchain-Based Rental Loan System Using Security Deposits as Collateralized Assets
- **Research Activities:** Blockchain, Decentralized Finance, Decentralized Justice System
- **Relevant Courses:** Algorithms & Data Structures, Web Programming, Web Engineering, Object Oriented Programming, Concurrent Programming, Machine Learning and AI, Development of Financial IT Systems.
- **Grade:** 4.63 out of 5 (3.7 out of 4)

EMPLOYMENT EXPERIENCE

Frontend Developer | IUX IT Pty Ltd

Sep 2024 - Present

- Built scalable Next.js applications with JavaScript, implementing SSR/SSG to improve page load times by 40-50% and enhance SEO performance for better user engagement
- Developed reusable component libraries using shadcn/ui and created custom UI elements, establishing consistent design systems that reduced development time and code duplication
- Integrated RESTful APIs with proper error handling and loading states, implementing caching strategies and request optimization to ensure smooth data flow and improved user experience
- Collaborated with design and backend teams to deliver pixel-perfect, responsive interfaces with accessibility compliance, translating mockups into functional web applications

Software Engineer Intern | ELTE IK Innovation Lab

Jul 2024 - Jan 2025

- Developed an internal team management web application using PHP (Laravel) for backend, React (JavaScript) for frontend, and REST API for integration
- Designed a preference-based shift management algorithm tailored to pink-collar jobs
- Contributed to prototype shift management system utilizing PHP (Laravel), Next.js (TypeScript), React, and REST API
- Deployed applications on AWS Lightsail LAMP stack server with Linux/Apache, configured DNS and AWS SES for email notifications
- Collaborated in Scrum environment as Development Team Member with sprint planning, daily standups, reviews, and retrospectives

Web Developer | IUX IT Pty Ltd

May 2022 - Apr 2023

- Developed high-quality, responsive websites using HTML, CSS, JavaScript and WordPress
- Collaborated with designers and stakeholders to create visually appealing and user-friendly interfaces
- Implemented cross-browser compatibility, accessibility, and performance optimization best practices
- Conducted thorough testing, debugging, and troubleshooting for smooth, error-free functionality

TECHNICAL SKILLS

Programming Languages: C, C#, Java, JavaScript, TypeScript, PHP, Python, Solidity

Frameworks & Libraries:

Next.js, React, Laravel, Node.js, Express.js, Angular, Flask, REST API, WordPress

Others:

CMS, SEO, MS Office, IBM SPSS, Adobe Photoshop, Canva, Latex

Databases & Tools:

SQL, MySQL, PL/SQL, SQLite, NoSQL, Git, Linux, AWS (LightSail, SES), VPS Management, CI/CD, Fire-base

Areas of Expertise:

Full Stack Software Development, DApp Development, Smart Contract Development, Object Oriented Programming, Unit Testing

RESEARCH & PUBLICATIONS

Accepted Research Paper: "State Machine Architecture for Dual-State Financial Assets"

Authors: Muntasir Jaodun, Dr. Khawla Bouafia

Conference: IEEE 23rd International Symposium on Intelligent Systems and Informatics (SISY 2025)

Published Research Paper: "Analysis and Evaluation of a Blockchain-based Framework for Decentralized Rental Agreements and Dispute Resolution"

Authors: Muntasir Jaodun, Dr. Khawla Bouafia

Journal: MDPI Blockchains 2025, Volume 3, Issue 2, 8

DOI: [10.3390/blockchains3020008](https://doi.org/10.3390/blockchains3020008)

RELEVANT PROJECTS

Nonna (*Next.js, JavaScript, Firebase, NoSQL, Stripe*) • nonna-puce.vercel.app

- Platform connecting seniors (nonna) with students (buddy) for non-medical assistance like grocery shopping and doctor visits
- Features dual user panels, admin panel, Firebase authentication, Firestore, and real-time database
- Complete SEO optimization and animations with full Next.js implementation in prototype stage

ShiftNester (*Laravel, PHP, Blade, Breeze, JavaScript*) • shiftnester.vercel.app

- Automatic Employee Shift Management System streamlining shift creation, assignment, and management for multi-department organizations
- Features employee preference-based scheduling and open shift marketplace system

AI Health Recommendation App (*React, TypeScript, Express.js, REST API, DeepSeek v3*)

- Collects user data and provides personalized recommendations for water intake, calorie count, and sleep time
- Uses DeepSeek v3 API and pre-trained GPT model with sophisticated prompt engineering for optimal AI output

Book Rental System (*Laravel, Blade, PHP, SQLite*)

- Laravel application with local SQLite database featuring Laravel Breeze authentication and Blade frontend
- Anonymous book search, logged-in reader rental tracking, and librarian management for books, genres, and rentals

2D City Builder Game (*Java Swing, SQLite*)

- Single-player SimCity-like game with local database progress saving
- Features complex economy, taxation, loans, disasters, demolition, and zoning
- Deployed via GitLab CI/CD pipeline with automated build, test, and deployment using Agile development with unit testing

HONORS & AWARDS

3rd Place - Scientific Students' Associations Conference 2025 (TDK) | *Eötvös Loránd University*
Recognition for research work on Blockchain and Decentralized Finance among 39 research projects

2nd Place - Digital Entrepreneurship for Participatory Democracy | *Portfolio Erasmus+ Project*
European Entrepreneurship Micro-minor competition organized by 5 European universities

Runner-up - 5th CASSINI Hackathon: Space for Defence & Security | *EU Space Programme*
Inter Europe competition using EU Space data from Copernicus, Galileo and EGNOS

Finalist - Budapest Open 2023 | *Budapest Debate Union*
Inter European University Debate Tournament

Stipendium Hungaricum Scholarship | *Government of Hungary*
Full-ride scholarship for 3 years of undergraduate studies at ELTE

Belt and Road Initiative Scholarship | *Government of People's Republic of China*
Full-ride scholarship for 4 years at Sichuan University

Dean's Scholarship & Drexel Grant | *Drexel University, USA*
50% scholarship towards 4 years of undergraduate studies at Drexel University, USA

ADDITIONAL INFORMATION

Languages: Bengali (Native), **English (Fluent [IELTS: 8.00])**, Hindi (Fluent), Urdu (Fluent), **Hungarian (Beginner)**, Spanish (Beginner)

Skills: Public Speaking, Content Writing, Presentation Skills, Communication, Research, Team Management

Activities: Debater at Budapest Debate Union, Ex-General Secretary at Adamjee Cantonment College Debating Club, Ex-President at Adamjee School Cultural Club