

Youssef Ibrahim

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Education

Lakehead University <i>MSc in Computer Science</i>	2025 - Present Thunder Bay, Canada
University of Pécs <i>Computer Science Engineering, Bachelor of Science</i>	Sep 2019 - Jul 2024 Pecs, Hungary

Experience

Samir Abbas Medical Center <i>Data Management Intern - IVF Laboratory Clinical System (Meditex)</i>	Jan 2025 – Aug 2025 Al-khobar, Saudi Arabia
- Worked with Meditex, a clinical information system used for IVF laboratory data management - Entered, validated, and maintained sensitive medical and laboratory data in structured digital systems - Ensured data integrity, accuracy, and compliance with healthcare privacy standards. - Gained hands-on exposure to clinical workflows, EHR-like systems, and lab-based data structures - Collaborated with IVF lab staff to retrieve, verify, and correct patient and laboratory records - Identified and corrected data inconsistencies to support reliable clinical reporting	
Al-Hammad for educational projects <i>IT Intern</i>	Nov 2022 – Aug 2023 Al-khobar, Saudi Arabia
- Collaborated with a senior developer to build and deploy scalable web solutions using React and Node.js, improving site performance by 20%. (www.alhammadgroup.com) - Developed and implemented new website functionalities, enhancing user experience and meeting customer needs. - Enhanced UX/UI responsiveness and accessibility to align with modern web standards. - Participated in stakeholder meetings to gather requirements and contributed to the development of best practices for website management. - Applied Agile development practices and participated in code reviews, gaining exposure to CI/CD pipelines and version control (Git).	
Balloon Station KFT. <i>Web Developer</i>	Nov 2020 – Jan 2022 Pécs, Hungary
- Maintained and enhanced the company website to ensure reliability, performance, and usability - Resolved bugs, broken links, and technical issues, resulting in a 20% improvement in user retention - Developed and updated front-end features using JavaScript, improving overall site functionality - Ensured compliance with EU GDPR accessibility and legal standards, reducing regulatory risk - Collaborated directly with the company owner to design and deploy new features, achieving a 15% increase in customer engagement	

Projects

Big Data Processing Cluster <i>Apache Spark, Hadoop (HDFS), Python/Scala</i>	Github
- Built a distributed data processing cluster using Hadoop (HDFS) and Apache Spark - Processed and analyzed large-scale traffic data from Kaggle using Spark transformations - Implemented data ingestion, storage, and parallel processing workflows across the cluster	
Event Handler <i>Java, Spring Boot, REST API, Hibernate</i>	Github
- Developed a web application using Java Spring to handle events and participants - Designed and tested REST APIs for application controllers - Used Hibernate as my ORM to manage the data	
Book Store <i>C#, .NET framework</i>	Github
- Built a web application to handle orders and user registration using MVC architecture. - Created an admin panel and integrated SQL database for data management	
SocialHub <i>MongoDB, Express, React.js, Node.js</i>	Github
Built a responsive social media web app using MongoDB Atlas for data storage and React for frontend UI.	

Leadership & Volunteering

AWS student clubs (Lakehead University) | Event Management Lead

Sep 2025 - current

- Managing end-to-end event logistics by securing physical or virtual venues, organizing equipment setup, and implementing registration systems, including online sign-ups and ticketing.
- Supporting on-site event operations by assisting attendees, schedule guidance, and general inquiries.

GDSC Chapter of Pécs | Event Lead

Sep 2023- Jun 2024

- Arranged necessary event logistics, such as venue booking (physical or virtual) and equipment setup. and set up event registration processes, including online sign-up forms and ticketing
- Conducted post-event evaluations to assess the success of the event and gather insights for future planning.

GDSC Chapter of Pécs | Public Relations Lead

Sep 2021- Jun 2022

- Established and maintained relationships with local media outlets, bloggers, and influencers to secure coverage for the club's activities.
- Engage with the university, faculty, and student organizations to build strong relationships and collaborations.

Skills

Programming: Java, Python, JavaScript, C#, SQL, SCALA (Still learning)

Frameworks: React.js, Node.js, Spring Boot, Express.js, .NET, Svelte

Databases: MongoDB, MySQL

Concepts: Data Structures & Algorithms, REST APIs, OOP, Design Patterns, Agile, CI/CD

Tools: GitHub, Postman, HADOOP, SPARK, Meditex (IVF Laboratory Clinical System)

Soft skills: Collaboration, Problem-Solving, Adaptability, Communication

HONORS & AWARDS

- **Certificate of Appreciation** – GDSC Core Team Member.
- **Certificate for Submitting a project for the Solution Challenge by Google.**
- **Excellence Scholarship at the University of Pécs.**
- **Cybersecurity Essentials from Cisco Networking Academy.**
- **Google Cloud Essentials from Google Cloud.**