**Yousuf Ghanem**

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**EDUCATION**

Bachelor of Computer Science **September 2018 – December 2024**

Software Engineering Stream

**AVAILABILITY**

Available starting June 2025

**RELEVANT SKILLS, EXPERIENCES AND ACCOMPLISHMENTS**

* Architected and implemented a comprehensive analytics dashboard using TypeScript and Next.js, featuring real-time data visualization, session metrics tracking, and executive summary reports.
* Implemented secure log-in/sign-up functionality using JavaScript, which involved authorization, password hashing, and encrypted data fetching from MongoDB collections, thereby boosting user security and system response time.
* Leveraged binary tree algorithms for efficient sorting and searching of website data, leading to faster data retrieval.
* Debugged an existing project, implemented a new user interface, and enhanced data management for improved user experience.
* Authored clear and comprehensive project documentation, minimizing confusion and facilitating smoother collaborations among software engineers.
* Increased code coverage to 85%, reduced bug reports by 60%, and improved deployment confidence, leading to faster release cycles and enhanced product stability.

**WORK EXPERIENCE**

**Founder and Software Engineer** **June 2024-May 2025**

Gd3n.gg

* Architected and developed a full-stack Arabic trivia gaming platform using Next.js 14, TypeScript, PostgreSQL, and Prisma ORM with complete RTL (Right-to-Left) language support
* Designed and built comprehensive analytics dashboard with data visualization using Ant Design Charts, tracking user engagement, session metrics, question performance, and executive summary reports
* Developed advanced content management system supporting 32+ game categories, multi-level difficulty systems (100, 300, 500 points), multimedia file uploads, and bulk question importing via JSON
* Achieved 700 registered users and 2000+ games played, demonstrating strong user adoption and platform engagement.

**Support Specialist** **Sept 2022-Jun 2024**

Royal Canadian Mounted Police. Ottawa, Ontario

* Developed logging scripts with Apache library and refactored existing ones to improve security and maintenance, utilizing my proficiency in Lua programming language.
* Conducted comprehensive research on content-security-policy to bolster the security measures of our scripts and ensure compliance with the latest standards.
* Engaged in weekly meetings with the supervisor to address project progress and any challenges encountered, facilitating better communication and problem resolution.

Developed a rudimentary test suite to validate the performance of scripts, thereby ensuring their functionality aligns with the expected outcomes.

**Team Leader** **May 2017-Dec 2020**

REDFOX GAMING & HOSTING INC. Ottawa, Ontario

* Organized and planned a meeting for future projects and players feedback using Teams to approve that we listen to the community and keep them updated.
* Reviewed and verified latest commits with knowledge of Github to ensure everything is working as intended and documented.
* Listed weekly tasks for each team member using Trello to inform them of what they need to finish with due dates to meet the expectation.
* Configured most of the technical-sided projects using YAML that are necessary to run multiple instances of databases and have proper values.