KAAL HARIR ABDULLE

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SUMMARY

Dynamic and results-oriented Software Developer with over 5 years of experience in designing, developing, and deploying innovative information systems. Possessing a deep understanding of the software development life cycle and a proven track record of success in creating robust applications. Proficient in a diverse range of technologies, including ASP.NET, ASP.NET MVC, ASP.NET Core, JavaScript, JQuery, Angular, CSS, HTML5, TypeScript, Web 2.0 programming, and database management. Adept at collaborating with cross-functional teams to deliver high-quality solutions. Master's and bachelor's degree in computer science and engineering.

EDUCATION

Master of Science in Software Engineering (M.Sc. SEN)   **SEPT, 2023**
Independent University, Bangladesh

Master of Science in Technical Education (M.Sc. TE)   **MAY, 2023**
Islamic University of Technology (IUT) OIC, Dhaka, Bangladesh

Bachelor of Science in Computer Science and Engineering, B.Sc. Engg. (CSE)   **MARCH 2021**
Islamic University of Technology (IUT) OIC, Dhaka, Bangladesh

Primary and Secondary Certificate (12years)   **JULY 2015**
Amoud Primary and Secondary School

TECHNICAL SKILLS

- **Languages:** C#, Java (Java EE)
- **Web Development:** ASP.NET (MVC, Core), HTML5, CSS, JavaScript, JQuery, Angular
- **Web Services/APIs:** RESTful, SOAP, Web 2.0 (JSON, OAuth)
- **Databases:** MS-SQL Server, Oracle, MySQL, DB2, Entity Framework, NHibernate, Hibernate
- **.NET Framework:** .NET 4.5, WCF, WF, WPF, LINQ, MEF
- **Java Technologies:** Java EE (RMI, JMS, EJB, JSP, JSF), Spring, Spring Boot
- **Unit Testing:** xUnit, Moq, AutoFixture, FluentAssertions, JUnit, Mockito
- **Version Control:** GIT
- **Collaboration Tools:** JIRA

EXPERIENCE

Senior Software Developer Hornaid Software Inc., Mogadishu, Somalia   *Jan 2023 - Nov 2023*

- Developed and deployed modules for various functionalities such as registration, enrollment, payments, reconciliation, information updates, and complaints, showcasing adaptability and commitment to creating comprehensive solutions.
- Modified existing software to enhance performance, fix errors, and upgrade interfaces, demonstrating a keen eye for improvement.
- Led software programming initiatives for applications and modules, ensuring adherence to design specifications and directing system testing and validation procedures.
- Collaborated effectively with departments and business users, demonstrating excellent communication skills, to analyze requirements and recommend/install new systems or modifications.
- Worked closely with cross-functional teams, evaluating software-hardware interfaces, developing specifications, and establishing performance requirements.
- Designed and developed software systems utilizing advanced technologies and methodologies, with a focus on predicting and measuring outcomes.
- Provided technical support for software-related issues, showcasing troubleshooting skills and a commitment to user satisfaction.
- Conducted quality assurance testing of software modules, contributing to the overall reliability and functionality of the systems.
- Stayed informed about the latest industry trends and applied innovative solutions to enhance system performance.
- Demonstrated expertise in ASP.NET, ASP.NET MVC, ASP.NET Core, JavaScript, JQuery, Angular, CSS, HTML5, TypeScript, Web 2.0 programming, relational databases (mention specific databases if relevant), ORM frameworks, .NET 4.5, and unit testing.
- Utilized tools such as JIRA and GIT to streamline collaboration and version control.

Research Fellow (Graduate Student) Independent University, Bangladesh (IUB), Dhaka, Bangladesh   **Sept-2021 – Sept- 2023**

- Conducted post-graduate research on software engineering, resulting in number published papers that contributed to the field of software engineering perspective.
- Presented findings at international conferences, enhancing the institution's visibility in the global research community.

Senior Database Administrator Kaalo Software Inc., Mogadishu, Somalia | June 2021 - December 2022

- Managed and maintained large-scale databases, ensuring optimal performance, security, and availability.
- Implemented backup and recovery strategies, minimizing data loss risks and ensuring data integrity.
- Conducted regular database performance tuning and optimization.
- Collaborated with development teams to design and implement efficient database structures.
- Implemented and monitored database security measures, preventing unauthorized access.
- Provided technical support to users, addressing database-related queries and issues.
- Conducted training sessions for junior database administrators and developers.
- Contributed to the planning and execution of database migration projects.

Software Engineer Luul Solutions, Dhaka, Bangladesh | September 2020 - May 2021
- Assisted in the development of user interface components for an award-winning fintech application.
- Participated in extensive code reviews to maintain a high standard of code quality.
- Provided maintenance and enhancements to existing codebases, improving functionality and user experience.
- Collaborated in a team environment to meet project deadlines and deliver functional software solutions.

BatteryLowInteractive, intern   **NOV 2019- Jan 2020**
- Collaborated with a team of experienced developers to understand industry-standard web development practices and methodologies, gaining valuable insights into real-world applications of web technologies.
- Participated in outsourced web development projects, working closely with clients to understand their requirements, developing custom web solutions, and ensuring timely delivery of high-quality products.
- Developed responsive and interactive front-end interfaces using HTML, CSS, JavaScript, and React.js, enhancing user experience and ensuring compatibility across various devices and browsers.

GLOBAL INTERNSHIP PROGRAM, Data Analytics Intern   **Aug 2018 – OCT 2019**
- Prepare and review documentation for current processes, pain points, and assumptions for business systems and continuously identify gaps.
- Collaborate with individual contributors within the business IT teams to solve key business problems by either driving process change or making systematic recommendations for delivery.
- Perform complex business and systems analysis work, root cause analysis and provide forward thinking, long term technical solutions; conduct requirements gathering/analysis and learn the Agile methodology
- Assist in cross-functional requirement sessions to elicit, document and analyze business requirements and functional specifications. Includes identifying unspoken or conflicting requirements and challenging the norm.

Software engineer   Kaaha Solutions   **Apr 2018– Jul 2018**
- Designed and implemented seamless integration solutions for government systems, ensuring interoperability and data consistency.
- Collaborated with external vendors to integrate third-party applications, ensuring compatibility and security.
- Implemented and maintained APIs to facilitate data exchange between government systems.

Data Security and Compliance Officer Bahar data analyst inc. Mogadishu, Somalia   **September 2015 - March 2018**
- Spearheaded the development of a customer portal, enhancing user experience and reducing response times by 20% through the implementation of ASP.NET Core and Angular.
- Collaborated closely with cross-functional teams to analyze and implement software modifications, resulting in a 15% improvement in system performance.
- Led the integration of RESTful APIs to streamline communication between different modules, reducing data retrieval times by 25%.
- Conducted regular code reviews and implemented best practices, contributing to a 30% reduction in software bugs and enhancing overall system reliability.

Software engineer   Tech Innovators   **Jul 2013– Aug 2015**
- Spearheaded the development of mission-critical government applications, ensuring adherence to project timelines and quality standards.
- Collaborated with cross-functional teams to gather requirements, design system architectures, and deliver high-quality software solutions.
- Conducted regular code reviews, implemented coding best practices, and ensured compliance with government coding standards.

RELEVANT PROJECTS

Face Recognition, *Class Project*   **SEPT 2020**
- Built a web app utilizing **django** to detect faces in a user entered image as a part of an online course
- Created a RESTful API to register users and keep track of number of images entered

Project-Zero, Class Project   **JUNE 2019**

- A Dummy Operating System based on MCertiKos (Based on Yale University OS course, New Haven, Connecticut)
- Demonstrate OS Basics, OS Kernel Structure, Boot loader Procedure etc.
- Developed & Tested in Ubuntu 18.04 LTS.

IUT shop, *Class Project***:**   **MAY 2019**

- Webiste That help student to buy and sell second hand material such mobile and computers .
- Done in javascript+PHP, on MYSQL, Strong lean towards performance optimisation and security.

ZebraCrypt, Class Project: **JULY 2018**

- A simple Windows Text File Encrypting Software developed with C++
- Chooses dynamic encryption key for each execution.
- Designed in such way that it can clearly identify exact sender and receiver and removes every data from an intruder.

LINGUISTIC PROFICIENCY AND STANDARDIZED TEST SCORES

- Excellent Proficiency in reading, listening, speaking, & writing in English and Somali.
- IELTS OVERAL: 6

Publications and international conferences

- Automated GUI Testing Tools for Single Page Web Applications published in APSEC 2022
- Sales and marketing automation through ERP implementation in the post-Covid-19 in Bangladesh scenario: value drivers in B2B relationships
- A Nobel approach to overcome the challenges in requirement Prioritization in large scale product development
- Implementing Risk Management for Software Project Development in Bangladesh based Software Firms: Practices, Challenges and Opportunities

ONLINE CERTIFICATIONS

- Full-Stack Web Development with React by coursera.org
- Deep Learning Specialization, Tensorflow Developer Specialization, by DeepLearning.AI, coursera.org
- Machine Learning, by Andrew Ng, Stanford University, coursera.org
- Python for Everybody coursera.org

WORKSHOPS

- Software Quality Assurance for Web Development by IUT
- Next-generation Cellular Communications: 5G and its Transition to 6G by IUT
- Cyber Security for Information Age: Practices and Challenges by IUT

REFENCENCES

Available per request