Madhavkumar Sheladiya

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TECHNICAL SKILLS

Programming Languages : C, C#, C++, Python, Java, R, Bash
Web Technologies and Frameworks : HTML, CSS, Android Studio, JavaScript, Django, .Net Framework, .Net Core/MVC, Node.js, Angular, XML, REST APIs, jQuery
Databases : SQL, Mongo DB
Development & Operations : Git, GitHub, Jenkins, Azure DevOps, Scrum, Agile, Waterfall
Other Tools and Technologies : Jira, MS Office Tools (Word, PowerPoint, Excel), DevOps, CI/CD, PyCharm, Wireshark, Visual Studio Code, Microsoft SQL Server, Jupyter Notebook, Kubernetes, AWS, Confluence

EDUCATION

University of Windsor   Sep. 2021 – Dec. 2022
Master of Applied Computing   Windsor, Ontario

- **Coursework**: Advanced Database Topics, Advanced Software Engineering, Advanced Systems Programming, Advanced Computing Concepts **(GPA: 87.56%)**

Ldrp Institute of Technology and Research   Aug. 2016 – Jun. 2020
Bachelor of Engineering in Computer Engineering   Gandhinagar, India

- **Coursework**: Database management systems, System Software, Web Technology, Python Programming, Software Engineering, Mobile Application Development with android, Big Data Analytics **(GPA: 82.6%)**

PROFESSIONAL EXPERIENCE

WFCU Credit Union   Sep. 2022 - Dec. 2022
Systems Developer Intern   Windsor, Ontario

- Conducted a comprehensive analysis of **30-40** tools for static and dynamic analysis to achieve the research project's objectives, which involved examining the documentation and evaluating their effectiveness and feasibility
- Leveraged the .Net framework to develop a robust console application that facilitated banking transactions for loan accounts, resulting in a **99%** success rate for handling failure cases
- Deepened understanding of SQL practices in real-world projects by deploying tables and stored procedures, proficiently supervising the data produced in backend, which led to a **25%** improvement in database management efficiency
- Strengthened logical thinking and debugging skills by successfully completing **10+** critical bug-fixing tasks in various internal console and web applications, resulting in a **15%** improvement in overall application performance and stability

METIZSOFT Solutions Pvt. Ltd   Jul. 2020 – Jul. 2021
Software Developer Intern   Ahmedabad, India

- Acquired proficiency in a Gradle-based build system, speeding up the emulator by **25%**, which improved overall development efficiency, and effectively utilized Git, template integration, and Java in a collaborative environment with a team of **5** developers
- Completed **15+** tasks on **JavaScript** models and **DOM** manipulation, improving code readability and reducing code complexity, which led to faster development cycles
- Implemented advanced authorization mechanisms using **JSON web tokens**, integrated data structure libraries such as **Immutable.js**, and optimized life cycle processes by **20%**, ensuring secure and efficient data handling
- Developed a full stack **MERN** application with a team of **4** developers, employing middleware, utilizing redux-promise for efficient handling of RESTful services, and managing multiple **HTTP** requests using Axios actions, which increased **API** response time by **30%**

IBL INFOTECH   May 2019 – Jun. 2019

Python Developer Intern   Surat, India

- Gained expertise in **Django** framework, developing a comprehensive e-commerce website as a final college project, which led to a **95%** completion rate and an **A** grade in the course
- Designed and implemented **10+** visually appealing and responsive web pages leveraging **HTML** and **CSS**, while utilizing an automatic admin interface for efficient content management and supervision, resulting in a **35%** increase in user engagement
- Integrated cookie-based sessions for secure user login/sign in and logout on the e-commerce website, and utilized a form library to render forms as **HTML**, validating user-provided data, which bolstered security by **60%**
- Demonstrated exceptional self-motivation and independence by consistently attending weekly meetings, and promptly submitting assigned tasks on the same day, increasing overall productivity by **15%** and showcasing strong time management skills

PROJECTS

ToDo Application (GitHub)

- Enhanced comprehensive knowledge of components in **.Net** by seamlessly integrating one razor increment counter component into a .Net class, successfully adding it to a home page, and customizing it with an increment value, resulting in a **30%** increase in user engagement
- Absorbed hands-on experience with data binding and event handling in .Net by expertly constructing a feature-rich ToDo List page, effectively binding a list of ToDo Items

Relational Analysis of Sales Data (Research-based) (GitHub)

- Employed Elbow and Silhouette techniques to optimize cluster count, employing K-means algorithm for precise cluster identification, enhancing analysis accuracy by **20%**
- Deployed Truncated SVD for dimensionality reduction and Pearson correlation to uncover significant correlations across three categories, improving data-driven decision-making by **30%**

Sidekick (Android Application) (GitHub)

- Utilized **Android Studio** and **MongoDB** to develop a user-centric app for Windsor newcomers, increasing user satisfaction by **25%**
- Implemented **Agile Scrum** methodology in the project, arranging weekly client meetings, and seamlessly integrated medical, accommodation, transportation, and essential services features
- Attained in-depth understanding of testing methods by conducting Integration testing as a functional test and Performance testing as a non-functional test, while creating manual test cases

Web search engine (GitHub)

- Designed a high-performing Web Search Engine utilizing **Java** programming language, incorporating advanced features including web crawling, pattern matching, page sorting, word suggestion, spell checking, and spell correction
- Applied cutting-edge algorithms such as URL crawling, Merge sort, Edit Distance, and Knuth-Morris-Pratt algorithm to implement all features and ensure optimal performance and functionality
- Carried out thorough testing to ensure accuracy, precision, and reliability of the search engine, resulting in an exceptional product that provided relevant search results and spell correction with an accuracy rate of over **95%**