Madhavkumar Sheladiya

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TECHNICAL SKILLS

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

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

- Developed and maintained robust web applications using **Spring Boot, Spring MVC, and Angular**
- Utilized **JDBC** for efficient database interaction, ensuring seamless data persistence and retrieval
- Implemented **JWT-based token** authentication in a healthcare management application, ensuring secure and convenient access to sensitive patient data while maintaining data privacy and confidentiality
- Configured **OAuth 2.0** and implemented Facebook and Google OAuth login functionalities in a social networking application, enabling users to seamlessly sign in with their existing social media accounts and share content effortlessly
- Implemented **OpenID Connect** flows and single sign-on into a collaborative project management tool, enabling seamless login and effortless switching between integrated applications using existing corporate accounts
- Collaborated closely with cross-functional teams, including designers, product managers, and QA engineers, to gather requirements, prioritize features, and deliver high-quality software solutions

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
- 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%**

PROJECTS

Product CRUD App (Angular) (GitHub)

- Developed a simple product CRUD application using **Angular** 9, allowing users to perform listing, creation, updating, and deletion operations on products
- Implemented functionality to interact with a fake **API**, enabling seamless integration and manipulation of product data within the application

Web search engine (JAVA) (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

Sidekick (Android Application) (GitHub)

- Utilized **Android Studio** and **MongoDB** to develop a user-centric app for Windsor newcomers
- 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

Parallel Text Analysis System on Linux (GitHub)

- Developed a distributed Linux system with a server-client architecture for whole-word searching in two files, while configuring the server to run continuously and accept client connections, ensuring system availability
- Created a command-line client program called **'dgrep'** to handle arguments, perform word searches locally and remotely, and implemented error handling for missing files and connection issues for system robustness

CERTIFICATIONS

- **Learning Jira Software (2019)**, LinkedIn Learning
- **Learning Angular**, LinkedIn Learning
- **Web Security: OAuth and OpenID Connect**, LinkedIn Learning
- **Scrum: The Basics**, LinkedIn Learning