



BILAL MAHMOOD

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Software Development & Testing | Code Maintenance | Debugging | Big Data Analysis | Programming

Full stack Software Engineer with 2+ years of professional experience building production-ready applications using cutting-edge software development tools. Optimizes application performance through Agile development, designing, and testing customer-focused features. Skilled in gathering and translating user requirements into mission-critical applications with interactive interfaces. Streamlines business operations through automation, bug troubleshooting, and best practice implementation.

Object-Oriented Programming
Algorithm Design & Development
Database Design & Management

Cross-Functional Collaboration
User Experience Improvement
Customer Needs Analysis

Java Spring, Python, C#, C++, HTML
VCS (GitHub/Git), SQL, IntelliJ IDEA
Eclipse, Linux, Docker, Kubernetes

EDUCATION

MS in Computer Science/Spec in SE [+Thesis], Lamar University | **GPA: 4.00 + Rank 1** | Awards: Grad. Student of the Year 2022

Coursework: Foundations of Computer Science, Algorithm Analysis, Computing Networks, Software Engineering, Machine Learning

BS in Computer Science, Lamar University | Awards: President's & Dean's Lists 2020

Selected Projects

- **Discord Automation Tool:** Streamlined real-time query handling on a 25,000-member Discord server by automating a Python bot to track and redirect queries, with custom commands for moderators.

PROFESSIONAL EXPERIENCE

Software Engineer and Agile Scrum Master, Western Union

1/2023 – Present

Created and managed Core API Microservices and documentation

- Full Stack development (Java Springboot, JUnit Unit Tests, JavaScript, Apache Pig Latin, Kafka, AWS) for Core money transfer transaction services.
- Created accurate and clean documentation for CaaS (Core-as-a-Service) APIs via Confluence pages.
- Utilized Agile Scrum practices and JIRA Kanban Boards to guide a team of 15 people in tracking progress on goals.
- Boosted project velocity by over 50% and streamlined scrum process.
- Led to team expansion by more than double within a month.

Full Stack Systems Software Developer, The Reynolds and Reynolds Company

6/2022 – 12/2022

Managed end-to-end application development and delivery for clients, leveraging cutting-edge industry-standard tools

- Full Stack development employing C#, JavaScript, ASP.NET Core, and SQL, for a web application and product used by thousands of customers.
- Ensured accurate custom application development by working closely with clients through PMD to collect and document product requirements; collaborated with a team of development SMEs.

Software Development & Research Intern, Sobah Systems

11/2020 – 04/2021

Developed custom software for private clients, focusing on handling large data

- Facilitated a NoSQL database development for a client by designing, coding, and maintaining an advanced web scraper, Wiki bot; seamlessly scraped data from 30,000 Wikipedia URLs and facilitated data auto-organization for database creation.
- Streamlined data extraction from local government websites and Google search results. Created web scraping bots using Python, Requests library, and BeautifulSoup, simplifying data import with CSV-based output files.
- Optimized web scrapers using multithreading tools, reducing application runtime by 88%.