

Hamza Farrukh

Senior Full-Stack Developer & IT Professional

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Professional Summary

Experienced IT professional with nearly 4 years of industry experience specializing in full-stack web development, system architecture, and data engineering. Master's degree holder in Information Technology with expertise in building scalable applications, leading agile development teams, and implementing cutting-edge technologies that drive business growth and user engagement.

Core Competencies: - Full-Stack Web Development (PHP Laravel, React, Python Flask) - System Architecture & Database Design (MySQL, MongoDB, PostgreSQL) - Cloud Technologies & DevOps (AWS, Azure DevOps, CI/CD Pipelines) - Data Engineering & Analytics (Hadoop, Spark, Machine Learning) - Agile Project Management & Scrum Master Certification - Cross-functional Team Leadership & Mentoring

Education

Master of Science in Information Technology

Major: Information Systems Development

Graduation: 2020

Key Coursework: - Programming & Data Structures (Python, Advanced Algorithms) - System Analysis & Project Management (MS Project, Gantt Charts, WBS) - Web Development Fundamentals (HTML, CSS, JavaScript, Responsive Design) - Machine Learning Algorithms & Applications (Aspect-Based Sentiment Analysis) - Security Essentials, Ethics & Professionalism in IT - IT-Enabled Supply Chain Management (IoT Integration) - Information Visualization & Dashboard Creation (Tableau) - Enterprise Web Development (AWS-based Cloud Deployments) - Big Data Technologies (Hadoop, Spark, Hive, Distributed Computing)

Capstone Project: PSI-based Password Manager

Technologies: Flask, FastAPI, OpenMined, Cryptography, SQLite

Developed a secure password management system using Private Set Intersection (PSI) technology, implementing advanced cryptographic techniques for privacy-preserving password storage and retrieval.

Professional Experience

CureMD | Senior Software Developer & Scrum Master

January 2022 - Present (3+ years)

Key Responsibilities & Achievements: - Led development of comprehensive Applicant Tracking System (ATS) using PHP Laravel framework, serving 500+ daily users - Architected and implemented CI/CD pipelines using Azure DevOps, reducing deployment time by 60% - Integrated external APIs including Codility API for technical assessments and Criteria Corp ATS for enhanced recruitment workflows - Managed complex database operations with MySQL and MongoDB, optimizing queries for 40% performance improvement - Served as Scrum Master for 3 cross-functional development teams (12+ developers), facilitating agile processes and sprint planning - Collaborated with product managers and stakeholders to define technical requirements and project roadmaps - Mentored junior developers on best practices, code review processes, and modern development methodologies

Technical Environment: PHP Laravel, MySQL, MongoDB, Azure DevOps, REST APIs, Git, Scrum/Agile

Onyxtec | Web Developer

March 2021 - December 2021 (10 months)

Key Responsibilities & Achievements: - Developed and maintained enterprise-level CMS and eCommerce platforms using PHP Laravel framework - Worked extensively with Magento for complex eCommerce solutions, customizing modules for client-specific requirements - Implemented responsive user interfaces collaborating closely with UX/UI design teams - Optimized application performance through database query optimization and caching strategies - Provided ongoing technical support and maintenance for existing client applications - Participated in code reviews and maintained high coding standards across development team

Technical Environment: PHP Laravel, Magento, MySQL, JavaScript, HTML/CSS, Git, jQuery

Tetralogix | Backend Developer

June 2020 - February 2021 (9 months)

Key Responsibilities & Achievements: - Built robust e-commerce backend features using PHP Laravel framework for high-traffic applications - Integrated Shopify API for seamless e-commerce functionality and third-party service connections - Developed RESTful APIs for frontend and mobile applications, ensuring scalable architecture - Implemented secure payment processing systems and comprehensive order management workflows - Designed and maintained inventory management systems and dynamic product catalog features - Collaborated in agile development environment with regular sprint planning and retrospectives

Technical Environment: PHP Laravel, Shopify API, MySQL, REST APIs, Git, Composer

Technical Skills

Programming Languages: - PHP (Expert) - 4+ years professional experience - JavaScript (Advanced) - Modern ES6+, Node.js - Python (Advanced) - Data analysis, web development, automation - HTML5/CSS3 (Expert) - Semantic markup, responsive design - SQL (Advanced) - Complex queries, optimization, database design

Frameworks & Libraries: - Laravel (Expert) - MVC architecture, Eloquent ORM, Artisan CLI - React (Advanced) - Hooks, Context API, component architecture - Flask/FastAPI (Intermediate) - RESTful APIs, microservices - Bootstrap/TailwindCSS (Advanced) - Responsive design, utility-first CSS - jQuery (Intermediate) - DOM manipulation, AJAX

Databases & Storage: - MySQL (Advanced) - Query optimization, indexing, replication - MongoDB (Intermediate) - NoSQL design, aggregation pipelines - PostgreSQL (Intermediate) - Advanced SQL features, JSON support - Redis (Basic) - Caching, session management - SQLite (Intermediate) - Embedded applications

Cloud & DevOps: - AWS (Intermediate) - EC2, S3, RDS, Lambda, deployment strategies - Azure DevOps (Advanced) - CI/CD pipelines, project management - Docker (Basic) - Containerization, microservices deployment - Git (Advanced) - Version control, branching strategies, collaboration - CI/CD (Advanced) - Automated testing, deployment pipelines

Data & Analytics: - Hadoop (Intermediate) - Distributed storage, MapReduce - Apache Spark (Intermediate) - Big data processing, Scala/Python APIs - Tableau (Advanced) - Data visualization, dashboard creation - Machine Learning (Intermediate) - Scikit-learn, NLP, sentiment analysis - Data Visualization (Advanced) - Charts, graphs, interactive dashboards

Project Management & Methodologies: - Scrum/Agile (Expert) - Certified Scrum Master, sprint planning - Project Management (Advanced) - MS Project, Gantt charts, WBS - Team Leadership (Advanced) - Cross-functional team management - Code Review (Advanced) - Best practices, quality assurance - Documentation (Advanced) - Technical writing, API documentation

Key Projects

Aspect-Based Sentiment Analysis on IMDB Reviews

Technologies: Python, NLP, Machine Learning, IMDB API, Scikit-learn, NLTK

Developed an advanced machine learning project analyzing sentiment in movie reviews with aspect-based classification. Implemented natural language processing techniques to identify specific aspects of movies and their associated sentiments, achieving 87% accuracy in sentiment classification.

Key Features: - Aspect extraction from movie reviews using advanced NLP techniques
- Multi-class sentiment classification per identified aspect - Comprehensive data preprocessing and feature engineering pipeline - Interactive visualization of sentiment trends and patterns

PSI-based Password Manager

Technologies: Flask, FastAPI, OpenMined, Python, Cryptography, SQLite

Designed and implemented a secure password management system using Private Set Intersection (PSI) technology. This innovative approach ensures privacy-preserving password operations while maintaining high security standards.

Key Features: - Private Set Intersection implementation for enhanced security - Encrypted password storage with advanced cryptographic protocols - RESTful API endpoints for seamless integration - User authentication and authorization system - Cross-platform compatibility and responsive design

Doctor/Patient Appointment System

Technologies: PHP Laravel, AWS, MySQL, Bootstrap, jQuery

Developed a comprehensive healthcare management system deployed on AWS infrastructure. The application facilitates appointment scheduling, patient record management, and doctor availability tracking.

Key Features: - Intelligent appointment scheduling system with conflict resolution - Separate dashboards for patients and healthcare providers - Secure medical records management with HIPAA compliance considerations - Real-time notifications and email confirmations - Mobile-responsive design for accessibility

FIFA Sentiment Analysis Dashboard

Technologies: Python, Tableau, Pandas, Twitter API, Data Visualization

Created an interactive data analysis project examining public sentiment around FIFA events using social media data. Implemented comprehensive data collection, processing, and visualization pipeline.

Key Features: - Automated social media data collection and preprocessing - Advanced sentiment analysis algorithms with emotion detection - Interactive Tableau dashboards with real-time updates - Trend analysis and predictive modeling capabilities

Big Data Processing Pipeline

Technologies: Hadoop, Apache Spark, Hive, Python, Scala, HDFS

Architected and implemented a scalable data processing pipeline for handling large-scale datasets. The system processes terabytes of data efficiently using distributed computing principles.

Key Features: - Distributed data processing with fault tolerance - ETL pipeline implementation with data quality checks - Real-time data streaming and batch processing capabilities - Performance optimization and resource management

Shift Grabber Application

Technologies: PHP, MySQL, JavaScript, Bootstrap, AJAX, Responsive Design

Developed a mobile-responsive web application for shift management and scheduling, allowing employees to view, request, and manage work shifts efficiently.

Key Features: - Intuitive shift scheduling interface with drag-and-drop functionality - Employee availability tracking and conflict resolution - Real-time notifications for shift updates and approvals - Mobile-first responsive design for on-the-go access - Administrative dashboard for managers and supervisors

Certifications & Professional Development

- **Certified Scrum Master (CSM)** - Scrum Alliance
 - **AWS Cloud Practitioner** - Amazon Web Services (In Progress)
 - **Advanced Laravel Development** - Professional Certification
 - **Machine Learning Fundamentals** - Coursera Specialization
 - **Agile Project Management** - PMI Certification
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Professional Achievements

- **100% Project Success Rate** - All projects delivered on time and within scope
 - **Team Leadership Excellence** - Successfully managed and mentored 12+ developers across multiple projects
 - **Performance Optimization Expert** - Achieved 40-60% performance improvements in database and application optimization
 - **Cross-Cultural Collaboration** - Extensive experience working with international teams and remote collaboration
 - **Continuous Learning Advocate** - Actively pursuing emerging technologies and industry best practices
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Languages

- **English** - Native/Fluent (Professional Working Proficiency)
 - **[Additional Language]** - Conversational (if applicable)
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Professional References

Available upon request

This resume represents my commitment to excellence in software development, team leadership, and continuous professional growth. I am passionate about creating innovative solutions that drive business success and user satisfaction.