Fahim Shams

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Summary

Full Stack Software Engineer and Technical Instructor with 3+ years of experience creating engaging, scalable, and technical training content. Adept in designing courseware, full-stack applications, and self-service learning modules. Strong understanding of platform technologies and modern engineering practices.

Skills

Programming Language: Java, Python C#, JavaScript, TypeScript, PHP

Frameworks and Libraries: Spring Boot, Flask, ASP.NET Core, Express, Node.js, Angular, Next.js, React

Data handling: Pandas, Scikit-learn, MySQL, MongoDB

Cloud, AI & others: AWS, Docker, GitHub Actions, OpenAI, RAG, Git, GitHub, npm, pip

Development Practices: RESTful APIs, Agile Development Methodology, OOP

Experience

Computer Software Engineering Technology Instructor   *Lancaster, USA*
Thaddeus Stevens College of Technology   *Aug 2021 – Present*

- Developed and delivered curriculum for 8 software development courses covering multiple languages and frameworks (e.g., PHP, Laravel, Python, Java) with a strong emphasis on object-oriented programming and data structures, preparing students for agile software development environments.
- Created and maintained self-service courseware including tutorials, labs, written guides, and hands-on projects to improve student engagement and autonomy.
- Enhanced student performance and course completion rates by 20% through engaging instruction and industry-aligned course materials, emphasizing best practices in coding, testing, and debugging.
- Led adoption of Canvas LMS for managing course materials and assessments, streamlining access to technical resources.

Full Stack Software Engineer (Contract via Randstad Technologies)   *Remote, USA*
Plus One, an Optum Company   *June 2022 – May 2023*

- Designed and developed RESTful APIs and scalable microservices using **C#**, **ASP.NET Core**, and **MySQL**, improving data reliability and system performance.
- Built dynamic, reusable front-end modules using **Angular** and **TypeScript**, resulting in faster UI development and consistent user experience across the platform.
- Leveraged **Azure DevOps** for CI/CD pipeline automation, ensuring faster and more reliable deployments across multiple environments.
- Collaborated using **GitHub** and agile workflows, actively participating in sprint planning, code reviews, and team retrospectives to drive iterative improvements.

Full Stack Developer (Client: PNC Bank)   *Remote, USA*
Tata Consultancy Services Limited   *Aug 2020 – June 2022*

- Developed and maintained robust microservices with **Java**, **Spring Boot**, and **MySQL**, improving system throughput by 20% and reducing processing time for internal banking operations.
- Engineered scalable front-end components using **Angular** and **TypeScript**, facilitating seamless data exchange and real-time UI updates.
- Optimized database queries and designed efficient schema structures in **MySQL**, supporting high-volume financial data processing with minimal latency.
- Implemented unit and integration tests with **Jasmine**, maintaining 90%+ test coverage and supporting a stable production environment with minimal defects.

Education & Certification

Master's in Computer Information Science   *Harrisburg, PA*
Harrisburg University of Science and Technology   *2023 – 2025*

Bachelors in Computer and Information Science, Minor in Mathematics   *Denton, TX*
University of North Texas   *2015 – 2020*

Microsoft Azure Fundamentals
Issued by: Microsoft | Date: April 2025

Projects

Automating Student Insights LINK: Developed an event-driven solution using **AWS Lambda, EventBridge**, and **Canvas API** to automate student data processing and notifications via **SNS**.

Weather Dashboard LINK: Developed a **Python**-based weather dashboard that fetches real-time data from **OpenWeather API** and stores it in **AWS S3** using **boto3** for scalable cloud storage.