Tianshu Xin

1090062661l@gmail.com • (920) 579-9696 • [GitHub](#) • [Portfolio](#)

PROFILE

Recent Computer Science graduate with a master's degree, skilled in C# and Python development, with hands-on experience in AWS cloud services. Enthusiastic about applying technical knowledge to real-world software engineering challenges. Seeking a full-time role to contribute and grow in the field.

EDUCATION

University of Wisconsin - Madison | Madison, WI
Master's in Computer Science | GPA: 3.9 / 4.0   **January 2021 - May 2023**
North Central Technical College | Wausau, WI
Diploma in Software Development | GPA: 3.92 / 4.0 | Dean List   **January 2020 - December 2021**
Shenyang Jianzhu University | Shenyang, China
B.S. in Mechanical Engineering   **September 2012 - July 2016**

PROJECTS

Ski Rush Shop | Personal Project   **June 2023 - Now**
- Built a dynamic e-commerce site with Angular frontend, ASP.NET Core RESTful API, Postgres database, ORM for efficient data retrieval, and Stripe API integration for secure online payments.
- Utilized a generic repository pattern to enhance code reusability and maintainability, reducing development time by 20%.
- Implemented Redis caching, resulting in a 40% improvement in website response times.
- Successfully deployed the e-commerce website on a DigitalOcean Linux server.

AutoBidMaster | Personal Project   **July 2023 - Now**
- Developed a microservices-based application using .NET for the backend and Next.js for the frontend, integrated RabbitMQ for asynchronous communication, focusing on scalability.
- Implemented Duende Identity Server and JWT Bearer authentication, ensuring secure user access control with role-based permissions.
- Utilized Dapper to optimize database access, resulting in a 40% reduction in CRUD API response times, improving the user experience.
- Led efficient CI/CD efforts with GitHub Actions, automating build, unit tests, integration tests, and deployment processes. Orchestrated containerized deployments using Docker and locally managed applications with Kubernetes.

Cloud Resume Challenge | Personal Project   **August 2023**
- Demonstrated a solid understanding of AWS by developing and hosting a scalable resume website on S3, optimizing content delivery with CloudFront, and registering a custom domain through Route 53.
- Utilized AWS Lambda boto3 and DynamoDB for real-time visitor tracking, combined with JavaScript for client-side analytics.
- Employed Terraform for efficient Infrastructure as Code (IAC) management, ensuring resource consistency and automation.

PROFESSIONAL EXPERIENCE

Lab Technician | ST Genetics | Fond du Lac, WI   **April 2017 – December 2021**
- Processed and analyzed semen samples from over 200 bulls, consistently achieving purity levels exceeding 95%, contributing to the genetic improvement of cattle herds.
- Ensured the accuracy and reliability of fluid cytometry data through meticulous instrument setup and calibration, played a vital role in troubleshooting and resolving issues, minimizing downtime and maintaining smooth laboratory operations, resulting in productivity improvements of over 20%.

CERTIFICATE

[AWS Certified Developer - Associate](#)   [AWS Certified Machine Learning - Specialty](#)
[HashiCorp Certified: Terraform Associate](#)   [AWS Certified Solutions Architect - Professional](#)

TECHNICAL SKILLS

C# | Java | Python | C++ | JavaScript | TypeScript | MATLAB | HTML | CSS | SQL | GraphQL | ASP.NET Core | Django | RabbitMQ | React | Angular | MS SQL Server | Postgres | MongoDB | Redis | TensorFlow | Pytorch | Docker | Hadoop | Kubernetes | AWS | Azure Devops | Jira | Terraform | Git | GitHub | Bash | Linux | Selenium | Visual Studio | Visual Studio Code | Vim