SHAN KHAN

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US Citizen & No Sponsorship Required

Education

Bachelor of Science	**University of Houston**	*Houston, TX*	**December 2024**

- Major Computer Science
- Minor Mathematics

Skills

- **Programming Languages:** Python, Java, JavaScript, TypeScript, R, C++
- **Frontend:** HTML, HTML5, CSS, JavaScript, React, AngularJS, Bootstrap
- **Backend:** Node.js, Express.js, RESTful APIs, Spring, Microservices Architecture
- **Data Management & Analytics:** SQL, Oracle PL/SQL, PostgreSQL, MySQL, SQLite, Pandas, Power BI, Mongo DB
- **Cloud Computing:** Azure, AWS, DevOps Processes (Jenkins, GitHub Actions, Docker, Kubernetes)
- **Productivity & Development Tools:** Visual Studio, R Studio, PyCharm, Code Lite, Microsoft Office Suite (Word, PowerPoint, Excel, Teams)
- **Certifications:** Microsoft Certified: Azure Fundamentals
- **Soft Skills:** Communication, Collaboration, Problem-Solving, Leadership, Time Management, Adaptability, Critical Thinking, Detail-Oriented

Experience

Coding Instructor	**theCoderSchool**	*Spring, TX*	**August 2023 - Present**

- Instruct Python, Scratch, and Web Development to over 100 students, adapting lessons to different skill levels.
- Develop lesson plans and projects, enhancing engagement and project completion by 30%.
- Lead coding workshops and hackathons, utilizing Visual Studio for hands-on learning.

Leadership Development Intern	**RippleMatch**	*New York City, NY*	**June 2022 - December 2022**

- Utilized various in-depth business development strategies and analyzed consumer behavior insights to grow the company's presence on campus.
- Leveraged various growth strategies and tools including social media, email, marketing, and presentations.
- Networked with Peer and Faculty members and increased the awareness by 40% on campus.

Projects

House Price Prediction Project	**June 2024 – July 2024**

- Developed a machine learning model using Python and scikit-learn to improve housing price prediction accuracy on the Kaggle House Prices dataset (1,400+ data points).
- Conducted extensive data preprocessing, including handling missing values, detecting outliers, and performing feature engineering to identify key relationships between variables.
- Implemented XGBoost as the primary model, achieving an 80% accuracy after hyperparameter tuning with Grid Search, outperforming baseline models like Linear Regression and Random Forest, and deployed the trained model on Heroku for real-time predictions.

Fuel Quote Web Application	**January 2024 – April 2024**

- Developed a full-stack fuel quote management application using Express.js and Node.js, streamlining fuel purchase processes for multiple users.
- Designed and deployed a scalable microservices architecture, adhering to the Agile methodology and DevOps practices for continuous integration and delivery.
- Built intuitive user interfaces with React for quote submissions and data review, enhancing user experience and engagement.
- Improved data management and backend performance by optimizing MongoDB queries and enhancing communication between front-end and back-end systems using RESTful APIs, resulting in a 15% faster response time and improved system scalability.

Activity

Interfaith Coordinator	**Interfaith Table Organization**	*Houston, TX*	**August 2021 – May 2024**

- Operated and spear-headed a team as well as organized events and team meetings and collaborated with teammates.
- Coordinated with teams and heads of different organizations to hold meetings of diverse personality types to deliver great dialogues.

Other

- **Languages:** English, Hindi, Urdu