Matt **Zhang**

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Skills

Languages: JavaScript/TypeScript, C#, Python, C, C++, HTML, CSS/LESS, Java, SQL

Frameworks: React, Angular/AngularJS, Vue, Node.js, Express, Flask, Bootstrap **Technologies:** MongoDB, PostgreSQL, WebSockets, RabbitMQ, Azure, Git/Hg

Experience _

Fullstack Developer Imagine Communications

AngularJS, Vue, C#, TypeScript, PostgreSQL, WebSockets, RabbitMQ May – September 2021

- Built management dashboards for 10+ top international TV broadcasters using AngularJS and Vue
- Triaged & fixed critical authentication bugs in C# backend blocking 35% of users from using products
- Reduced complexity and file size of product deployment by 75% using WebSockets and RabbitMQ
- Launched data aggregation pipeline to normalize PostgreSQL databases reducing storage size by 25%

Projects _

DoxMy.Tech ()

React, Flask, Bootstrap, PostgreSQL, Azure, Python

- Built fullstack web app using React and Flask with PostgreSQL database for social media analytics
- Created RESTful API to aggregate social media data for sentiment analysis and entity recognition
- Deployed modular Flask server and data pipelines to clean and standardize data
- Visualized processed data and Azure Text Analytics on responsive React/Bootstrap website

watNext (7)

React, MongoDB, Node.js, Express

- Developed fullstack React/Node.js web app to allow users to socialize and to track deadline and events
- Implemented JWT-based authentication using MongoDB to store user profiles
- Built RESTful API with Express using Mongoose to serve users todo lists and process comments

Sir Goose (7)

TypeScript, MongoDB, OAuth

- Authored moderation tools for UWaterloo-affiliated Discord bot serving 10000+ users & 20+ servers
- Developed OAuth solution integrated with MS Graph API to verify students by program and year

Grammar Hammer O

JavaScript, Python, Azure

- Engineered a device to give users physical feedback based on an ML analysis of their spoken grammar
- Queried Microsoft Azure's speech-to-text API to transcribe Arduino recorded speech in real time
- Created and trained an NLP model to check for grammatical correctness with 80% accuracy

Education

University of Waterloo