Zachary J. Tarell

www.ZachTarell.com

112 Price Circle Frisco, TX 75036
zach.tarell@gmail.com
(717) 425-9268

EDUCATION

The University of Texas at Dallas — Dec 2020
Bachelor of Science in Software Engineering

OBJECTIVE

I am currently looking for a Full-Time / Part-Time / Internship Entry-Level Position in Software. My Engineering Domain is in Artificial Intelligence. Notably, Probabilistic Algorithms focused mainly on Machine Learning, Natural Language Processing, and Deep Learning Models. I'm a Full-Stack Developer with experience in Web Design, Database, and Data Structures/Analysis.

Projects Available upon Request in GitHub or at my website: www.ZachTarell.com

TECHNICAL SKILLS

Languages :	Python, JAVA, C/C#/C++, R, UNIX BASH, JavaScript, HTML, CSS, SQL
OS :	Windows 10, Mac OS X, UNIX/Linux
Framework :	JRE, ASP .NET, iOS, Angular JS, REACT, Django, Boostrap
Applications :	VS Code, Visual Studio, JupyterLab, Netbeans, RStudio, Powershell, MS Office, Apache, MySQL Workbench, PyCharm, Google Colab, AWS, GCP

RELEVANT COURSES

Machine Learning	Software Engineering:	Data Structures
Atrificial Intelligence	- Management	Algorithm Analysis
Computer Vision	- Requirements	Database Systems
Human Language Technology	- Design & Testing	Web Design

PROJECTS

Monte Carlo Simulation to Find Value of Pi, *C/C++ in UNIX* — Fall 2018
Wrote a BASH Script and C++ Monte Carlo simulation to estimate the value of pi. It was compiler-modified and error-check code in Linux/UNIX; Ran 1,000-100,000 simulations in under 5 minutes

Flight Plan, *Data Structures and Algorithm Analysis* — Spring 2019
Developed a flight plan with Java utilizing weighted time and cost paths of flight patterns; Used a Red/Black Tree data structure and Dijkstra's Shortest Path Algorithm with Priority Queues

Project Management Plan, *Project Management* — Fall 2019
Worked with a team to create and present a Work Breakdown Structure for a mobile app. Followed SDLC utilizing MS Project; Created Cost, Time, and Budget deliverables with Risk Analysis.

Data Manipulation, *Machine Learning* — Spring 2019
Took two datasets of >50,000 entries as csv files using both R and Python; Algorithms were Linear Regression, Logistic Regression, kNN, Naïve Bayes, Decision Trees, SVM, and Random Forest

Web Crawler to Chatbot, *Human Language Technologies* — Fall 2020
Used Natural Language Processing with Python and built a program which parsed 15 different websites and text to make a chatbot of relevant and important words about stock market

ServiceNow Cloud Manager, *DXC Technology* — Fall 2020
With a team of 5, created a GCP and AWS cloud monitoring system script managing common services for DXC Technology to better deal with patches, help desk, security, and other instances as needed

WORK EXPERIENCE

Instructional Assistant **Brookhaven College** – *Dallas, TX* — Spring 2017 – Spring 2018
Tutored Students in Object-Oriented Programming Languages and Web Development; Used 4 Different Programming Languages (Java, C++, C#, & HTML/CSS) Helping with Logic & Design