Fortythree Shiaohongtu

EDUCATION

University of Texas at Dallas M.S. in Computer Science University of Texas at Dallas B.S. in Computer Science

CONTACT INFO

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SKILLS

Programming Languages

Python • Node.Js • Java • C# JavaScript • HTML • IATEX

Databases

SQL • Oracle • SQLite

 $MongoDB \bullet AzureCosmosDB$

Languages

English, Fluent

Mandarin Chinese, Fluent

COURSEWORK

Machine Learning Probabilistic Graphical Models Network Security Database Design Data Structures & Algorithms Operating Systems Concepts Convolutional Neural Networks

EXPERIENCE

FILE & SERVE EXPRESS, Junior Software Developer
Irving, Texas June 2019 — March 2020

- Exposed **REST APIs** on a legacy system and utilized its functionality on a GUI using **C**#. This improved efficiency and performance in manipulating data by the AppOps team
- Developed web-based C# .NET Core applications using Visual Studio
- Created unit tests for all code submitted and extend test coverage for existing legacy code
- Collaborated with the QA analyst team to understand application functionality and automate test cases
- Maintenance and support of electronic filing service provide products, including front-end UI improvements/updated with back-end integration and performance upgrades
- Mentored and assisted others in the team who are less familiar with the code base to establish knowledge on the product, which increased development speed and maximized sprint cycle efficiency

KOBE STEAKS, Server

Addison, Texas

May 2017 — May 2019

- Cusstomer-service focused, ensuring that guests have a high quality dining experience
- Worked collaboratively ith other employees in a team-driven environment

ENRICHMENT CHESS, Teacher's Assistant

Dallas, Texas

September 2017 — December 2017

- Taught chess classes upwards of 20+ students, incorporating a variety of chess strategies
- Kept detailed progress notes on each student and worked closely with them to improve their skills

PROJECTS

DEEP LEARNING ON MINESWEEPER

May 2020 — Present

- Implemented game logic and machine learning models using **python** and front end UI using **Flask**
- Agents learned completely through self-play, with no past human experiences
- Utilized the **Keras** and **Tensorflow** library
- Models created using convolutional neural network by applying different techniques such as batch normalization, dropout, padding, and residual connections
- Created multiple reinforcement learning agents using **policy gradient**, **actor-critic** and **q-learning** method

INTELLIGENT TUTORING SYSTEM January 2019 — May 2019

- Web application that captures student's attentiveness and emotion during lectures
- Back-end machine learning model implemented using **python**, **mongoDB** as database and **node.js** for front-end UI
- Worked in a team of 5 people including an advisor where tasks were split among the team in weekly meetings