Yunhao Zhang (Henry)

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| Summary

> Computer science graduate with a strong foundation in algorithms and data structures, as well as hands-on experience in software development and research.
> Experienced in full-stack development and machine learning, with a focus on creating user-friendly interfaces and scalable backend systems.

| Education

University of Texas at Dallas   Expected Dec 2023

M.S. Computer Science   *Richardson, TX*

University of Texas at Dallas   2018 – 2022

B.S. Computer Science, GPA 3.95, Summa Cum Laude Honor   *Richardson, TX*
> Relevant Courses: Web and Server-side Development · Object-Oriented Analysis and Design · Database System Management · Operating System (Multithreading) · Data Structure and Algorithm Design & Analysis · Machine Learning · Virtual Reality · Programming in Unix/Linux Environment · NLP · Statistics Methods for Data Science nad Machine Learning

| Skills

Languages   C, C++, C#, Java, Python, JavaScript, Typescript, MIPS, R, Swift, Kotlin
Web Technologies   HTML, CSS, Bootstrap, PHP, Sass, JSON, AJAX, Flask, Firebase
JS Framework & Library   AngularJS, ReactJS, Node.JS, React Native, TypeScript, Redux
Databases   SQL, MongoDB
Machine Learning Tools   Numpy, Pytorch, Tensorflow, Keras, BERT, sci-kit learn
Other Tools   AWS(EC2, Elastic Beanstalk, etc), Google Cloud CLI, Git, Npm, Gradle, Maven, Unity 3D, Coq Formal Proof, AWS Rekognition, Xcode

| Experience

Sciencella   August 2021 – January 2022

Full-Stack Software Engineer   *Richardson, TX*
> Worked with the company and school team to create a prototype and deploy a mobile application used by dietitians and patients for both iOS and Android platforms. The application is for assessing nutrition and providing a health score for a meal by users taking a photo and submitting it through our app.
> Efficiently managed individual project priorities, deadlines, and deliverables at each phase of development through the five months. Meet with the CEO, product managers, and nutritionists each week to discuss improved user experience and enhanced model accuracy for nutrition analysis.

UT Dallas   May 2021 – Dec 2021

Research Assistant   *Richardson, TX*
> Assisted Machine Learning related research with a professor and their team of researchers.
> Worked on topics like Automated Program Code Repair using Machine Learning.
> Used tools like npm, numpy, TensorFlow, BERT.

| Projects

Personal Portfolio plus Blog Website   Feb 2023 - Present
> Creating a website for personal and contact information. Decorated with a blog system supporting user registration and content posting.
> Implementing front-end with React JS and Sass, back-end with Express Server and Node.js MongoDB.

Sciencella LLC Nutrition and Health Assessment Application   Aug 2021 - January 2022
> Designed and deployed a mobile app for both iOS and Android to assess nutrition information of a meal for users by simply taking a photo of the meal and raising alerts for dietitians about potentially unhealthy meals. The photo submitted through app camera will be sent to back-end database and analyzed by machine learning model
> Implemented front-end with React Native and Redux, back-end with Firebase API and Flask, and Machine Learning Model with with Keras layers and sci-kit-learn.
> Targeted at users who are dietitians and patients who need extra care on diet. While testing with a small user group, it helps users save over 20% of time on planning diet and cooking.

VR Multiplayer Kitchen   Jan 2022 - June 2022
> Created a Virtual Reality Multiplayer cooking game with Unity 3D and C.
> Created user-friendly UI and smooth game playing.
> Held a demo event for more than 30 players to experience our game and receive feedback and popularity.