ZIJIAN ZHONG

Dallas, TX | 646-886-0238 | zhongzj98@gmail.com | https://linkedin.com/in/zijianz | zijianzhong.com

EDUCATION

University of Southern California — Los Angeles, CA
Master of Science in Computer Science — August 2022-May 2024
3.6/4.0 GPA

Advanced Coursework: Analysis of Algorithms, Database System, Multimedia System Design, Web Technologies, Computer Graphics, Advanced Mobile Devices & Games, Information Retrieval & Web Search Engines

University at Buffalo — Buffalo, NY
Bachelor of Science in Computer Science — August 2018-May 2022
Minor in Mathematics — 3.7/4.0 GPA with high distinction
Advanced Coursework: Software Engineering, Computer Security, Web Apps Development, Networking, Machine Learning

SKILLS

Programming Languages: Python, Java, C, C++, C#, Scala, JavaScript, TypeScript, OCaml, SQL, HTML, CSS
Frameworks & Libraries: Unity, Spring Boot, React, Angular, REST API, Bootstrap, Tailwind, Flutter, NodeJS, OpenGL
Tools & Cloud Platforms: AWS, GCP, Docker, MongoDB, MySQL, Git, Zenhub

EXPERIENCE

University at Buffalo — Buffalo, NY
Research Assistant — January 2021-September 2021

- Collaborated with peers to engineer cross-platform mobile applications in Flutter
- Collaborated with interdisciplinary teams to refine app design, and enhanced user engagement by simplifying navigation and feature accessibility across application
- Processed and analyzed complex datasets using Python for stress measure and prediction purposes
- Co-author of research paper "Stress prediction using micro-EMA and machine learning during COVID-19 social isolation."

PROFESSIONAL CERTIFICATIONS

- AWS Certified Solutions Architect - Associate, AWS
- AWS Certified Developer - Associate, AWS

PROJECTS

eBay Shopping App
Angular, Java, JavaScript, Mobile App, Web App, MongoDB, Google Cloud, Bootstrap, NodeJS, Software/Web Development

- Orchestrated a web and mobile application leveraging eBay's Restful API, enhancing search and filter experience for users
- Engineered a dynamic user interface with Angular and Bootstrap, automatically adapting content to various screen sizes
- Crafted a backend system with NodeJS and MongoDB to manage user favorites, improving app's personalization features
- Engineered an Android application using Java to enable users to have a seamless shopping experience from web to mobile
- Deployed and managed app's backend on the Google Cloud Platform, ensuring seamless scalability and maintenance

Text Chat Application
C++, Socket Programming, TCP, Networking

- Developed the client and server components of a text chat application, consisting of one chat server and multiple chat clients over TCP connections
- Clients can either send a unicast message to any one of the other clients or a broadcast a message to all the other clients
- Enabled the server to buffer messages destined to clients that are offline with the ability to block any client based on IP address

Zijian's Website
React, Tailwind, Typescript, Responsive Design, UI/UX

- Built a personal website by using React and Tailwind to apply UI/UX design and enable responsive view
- Website hosted with a custom domain "zijianzhong.com"

PUBLICATIONS

- Li, H., Zheng, E., Zhong, Z., Xu, C., Roma, N., Lamkin, S., Von Visger, T. T., Chang, Y.-P., & Xu, W. (2022). Stress prediction using micro-EMA and machine learning during COVID-19 social isolation. Smart Health, 23, 100242.