ZIJIAN(KEVIN) ZHONG

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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
- Engineered cross-platform mobile applications in Flutter to facilitate research data collection on Android and iOS devices
- Collaborated with interdisciplinary teams to refine app design, implemented features, and enhanced user engagement
- Processed and analyzed complex datasets using Python for stress measure and prediction
- Co-author of research paper "Stress prediction using micro-EMA and machine learning during COVID-19 social isolation."
- Received scholarship from the National Science Foundation

PROFESSIONAL CERTIFICATIONS

- AWS Certified Cloud Practitioner, AWS, April 2024
- AWS Certified Solutions Architect – Associate, AWS, May 2024

PROJECTS

eBay Search 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 backed system with MongoDB to manage user favorites, improving app's personalization features
- Built mobile app with Java for multiple platform support
- Deployed and managed app's backend on the Google Cloud Platform, ensuring seamless scalability and maintenance

Mellowing Mind Community
Flutter, Dart, Firebase, Mobile Application, Software Development, Software Architecture, Database Management, Data Analysis
- Delivered a mindfulness mobile app, targeting stress reduction in Buffalo communities during COVID-19
- Focused on a user-centric design, simplifying navigation and feature accessibility across application
- Accumulated user data for stress level measurement and prediction

Reliable Transport Protocols
C++, Networking, A/B Testing
- Implemented reliable data transport protocols: Alternating-Bit, Go-Back-N, and Selective-Repeat using C++
- Increased throughput/ network performance when data packets are lost during transition

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.