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"Be the change that you want to see in the world."

Summary _____

Currently a Software Engineer at a stealth startup, focusing on innovative software development in a dynamic, technology-driven environment. With a diverse background in chemical and hardware engineering, I excel in roles that require both technical and analytical skills. Actively pursuing a Master's degree in Computer Science at Georgia Institute of Technology, specializing in Machine Learning, and constantly expanding my skillset in software development, data science, and AI.

Work Experience

Sequelae Santa Clara, CA/USA

SOFTWARE ENGINEER (BACKEND)

May 2022 - Present

- · Designed and implemented an advanced healthcare analytics platform using FastAPI, integrating with Google Cloud services for real-time data processing and insights generation.
- · Leveraged pandas for data analysis and matplotlib for visualization, enabling the communication of personalized health insights derived from biometric data to users.
- Developed robust back-end services and ETL pipelines for OAuth validation and API requests, enhancing system security and data integrity.
- Integrated the platform with Fitbit, Garmin, AppleHealthKit, and Dexcom for CGM/Sleep/HR monitoring, providing comprehensive health insights to
- Implemented Data-Driven Design for visualizing health insights, improving user engagement through interactive infographic applications.
- Engineered Backstage.io as the code foundation to facilitate rapid iteration and reuse of LLM toolkit features by development teams.
- Focused on improving system availability, performance, and customer experience monitoring; implemented automated localization for global reach.

Woven by Toyota (Formally Lyft Subsidiary)

Santa Clara, CA/USA

QUALITY ASSURANCE ENGINEER

Oct 2021 - Apr 2022

- Developing, debugging, and troubleshooting test scripts in Python and Bash for stress testing compute and storage module performance in vehicles, including on the AGX Xavier platform.
- Identified and validated defects through comprehensive testing of serial communication protocols (TCP/IP, CAN, UART) using real-world scenarios. test cases, and data analysis.
- · Conducted performance testing and analysis using Buildkite and Mode Analytics to assess system performance, scalability, and stability, and provided recommendations for optimization and improvements.
- Developed test scripts for GNSS antennas to evaluate functionality and performance before vehicle installation.
- Designed reliability testing for CAN (Controller Area Network) forwarding services to validate signal integrity, directionality, and message sequencing using accelerated life testing techniques.
- Implemented openHTF to optimize hardware reliability in a fleet of vehicles, resulting in enhanced fleet performance and customer satisfaction.

Velox Biosystems

Irvine, CA/USA

BIOMEDICAL ENGINEERING INTERN

- May 2019 Dec 2019 • Engaged in Development of lab-on-chips for analysis of urinary tract infections, bloodstream infection, cancer liquid biopsy, and antibiotic suscep-
- Optimized the detection of amplification through methods of qPCR and ddPCR, and specified targets using fluorescence chemistry and a 3D particle counter to enhance diagnostics' speed and accuracy.
- · Contributed to the development of automated systems for efficient and accurate diagnostic testing.
- Applied Lean Six Sigma methodologies for process optimization and quality improvement in laboratory settings.
- Developed proficiency in R programming language for data analysis and experiment automation.

tibility testing using a comprehensive droplet digital detection system.

Certificates_____

2023	AWS Certified Advanced Networking - Specialty, Amazon Web Services (AWS)	
2022	AWS Certified Security - Specialty, Amazon Web Services (AWS)	
2022	AWS Certified Solutions Architect - Professional, Amazon Web Services (AWS)	
2021	R Programming, Johns Hopkins University, Coursera	CZA8UVPG4P43
2021	The Data Scientist's Toolbox, Johns Hopkins University, Coursera	8TPNQJZQUY5C
2020	Lean Six Sigma Green Belt, American Society for Quality (ASQ) MENA	

Education

(University of California Riverside)

B.S. IN CHEMICAL ENGINEERING

(Georgia Institute of Technology)

M.S. IN COMPUTER SCIENCE

Riverside, CA

Sep. 2017 - 2019

Atlanta, GA

Sep. 2023 - Current