Zaina Qasim

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EDUCATION

University of Cincinnati, OH | GPA 3.6/4.0

Graduated May 2023

BS Computer Science (Honors), Certificate: Intelligent Software Development, Minor: Mathematics

Achievements: UC Global Scholarship/Dean's List, MHacks 13 Beta (winner in four different categories).

Leadership: Treasurer (Women in Technology), Meetings Chair (IEEE@UC).

Employment: Teaching Assistant (Foundations of Engineering Design Thinking I & II), IT Consultant (UC@IT, Lindner@IT).

Relevant Coursework: Design and Analysis of Algorithms, AI Principles and Applications, Information Retrieval,

Intelligent Data Systems, Parallel Computing, Cloud Computing, Deep Learning, Linear Algebra.

Capstone Project: Music recommendation system using Spotify's API to provide personalized playlists by uniquely

defining similarity through advanced user-defined filters (TuneMe).

SKILLS

Programming Languages: Python, Go,

C++, Java.

Data Cleaning and Preprocessing:

Regex, Data Imputation Techniques.

Data Manipulation and Analysis:

NumPy, Pandas.

Data Visualization: Matplotlib,

Seaborn.

Database: SQL, MongoDb.

Machine Learning: Scikit-learn, Keras,

PyTorch, TensorFlow.

Cloud Platforms: AWS, Google Cloud

Platform (GCP).

Web Development: HTML/CSS, TypeScript, Flask, Django, gin-gonic, Solid.JS, React, Tailwind, SUID.

Project Management: Agile, Jira,

Linear.

Design: Figma, Adobe InDesign,

Illustrator, Photoshop.

EXPERIENCE

Software Development Engineer, Blue Innovations Group, FL | 60+ hours/week

Jun 2023 - Present

- Full-stack development in a dynamic, seed-level, electric boat startup with rapidly evolving requirements.
- Maintaining project quality through frequent code reviews, unit, integration, manual and end-to-end tests.
- Collaborating with mechanical and engineering teams to iteratively develop models for range and runtime estimation and rigorous methodology for measuring prediction accuracy through extensive research and data analysis.
- Delivering end-to-end functionality (including UI design) for 8 different boat sensors and controls.
- Implemented a real-time weather dashboard through meteorological research and intuitive visualization.
- Developed unit conversion architecture to seamlessly handle multiple data-sources and heavy traffic.

Firmware Engineering Intern, Infinera Corporation, CA | 40+ hours/week

Jan 2022 – Aug 2022

- Automated deployment of FW builds from storage server onto local testing boards.
- Led a team in creating an Al-powered Flask web app for parsing and ranking resumes, concurrently designing its UI.
- Implemented Pythonic testing framework for firmware testing as well as developed test cases for sanity testing.
- Extended and debugged the Object Help Editor GUI Tool to develop editing support for the latest project database.

ASIC Design Engineer, Infinera Corporation, CA | 40+ hours/week

Jan 2021 – Apr 2021

- Developed Pythonic infrastructure for interrupt service routine (ISR) implementation.
- Streamlined test case generation through automation, optimizing efficiency and precision in the testing workflow.

Logistics Analyst, Infinera Corporation, CA | 40+ hours/week

May 2020 - Aug 2020

- Extended ASIC library analysis tool to handle single port memory cells.
- Optimized, tested, and debugged post route health check and hierarchy analyzer tools.
- Developed a LALR (1) parser and solver using pypeg2 and Google OR Tools for System Verilog style constraints.

ASIC Design Engineer, Infinera Corporation, CA | 40+ hours/week

Aug 2019 - Dec 2019

- Enhanced ASIC library analysis tool, reducing runtime by 2 hours through multi-processing.
- Engineered register access infrastructure and environment for chip validation and functional testing using gRPC.