Khaled Zaza

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EDUCATION

Bachelor of Science, Computer Science May 2024
San Jose State University, San Jose, CA

- GPA: 3.8/4.0
- Relevant Coursework: Data Structures and Algorithms, Programming in Python, Advanced C++, Programming in Java, Assembly Language, Computer Architecture, Discrete Math, Calculus, Information Security, Operating Systems, Theory of Computation, Programming Paradigms.

SKILLS

Python, C++, Java, C#, JavaScript, cURL, HTML, CSS, Flask, Bootstrap, Pandas, Debugging, OOP, Algorithms, Data Structure, UML, GitHub, Git, SQL, Microsoft SQL, RESTful APIs, APIs, command Line, Jira, Salesforce, macOS, Windows, Kali Linux, Networking, MS Office Suite, Leadership, Accounting.
Languages: English, Arabic.

PROFESSIONAL EXPERIENCE

Software Engineer Intern, BlackBerry, Mountain View, CA Jan 2023 - Present

- Design **JavaScript** software with **AI**-powered internal tool using **CI/CD** for improved customer interactions.
- Implement **RESTful APIs** for database systems using **Python** to connect **front-end** to **back-end** system.
- Develop **Python** software using **cURL** to securely import **JSON** files from APIs with **authentication** for efficient data.
- Work with **SQL** to maintain and update the content and structure of the BlackBerry **database**.
- Enhance support efficiency by creating software tools for **automating** and streamlining support processes.
- Gather metrics and performing statistical **analysis** to identify trends and areas for improvement.

Software Engineer Intern, Spartan Racing, SJSU Formula SAE, San Jose, CA Oct 2022 - Present

- Develop **Python** tools to **scrape** websites, reducing data collection time by more than **%2,000**.
- Optimize **simulations** using **MATLAB** (Simulink) to analyze and optimize vehicle performance.
- Build launch control systems to improve lap times during competitions using **C language**.
- **Analyze** competition data for improvement and develop optimized performance strategies.
- Design **flowcharts** to clearly communicate complex logic within the software system to **team** members.

Data Science Researcher, San Jose State University, San Jose, CA Jun 2022 - Sep 2022

- **Extracted** data from multiple sources and performed statistical analysis to identify trends and extract insights.
- Developed automation programs in **Python** that reduced data processing time by more than **%1,000**.
- **Researched** and analyzed industry trends and published articles to identify problems.
- Utilized statistical analysis and machine learning techniques to identify **patterns** and trends in data sets.
- Created visually appealing and interactive **data visualizations** using tools such as **NumPy** and **Plotly**.

IT Intern, CompTechS (De Anza College), Cupertino, CA Oct 2021 - Nov 2021

- **Troubleshoot** hardware and software issues, using tools such **command prompt** to diagnose and resolve problems.
- Developed and maintained IT system **documentation**, including user guides and technical manuals.
- Worked with **team** members to identify and resolve technical issues in a timely and efficient manner.

PROJECT EXPERIENCE

Indexify Application, SJSU Oct 2022

- Skills used: Java, JavaFX, SceneBuilder, GitHub, OOD, IntelliJ.
- Created a user-friendly **Desktop application** for digital index card manager to help students with studying.
- Supporting multiuser with **encrypted** passwords for security.

Stock Watch, Personal Jan 2022

- Skills used: Python, requests, Twilio, PythonAnywhere, GitHub, HTML.
- A **web application** using **Python** and **requests** allows users to pick favorite stocks and sends SMS notifications based on percentage changes of favorite stocks, including most recent news about stocks.

Car Braking System, Engineering course Sep 2020

- Skills used: C++, Robotics, Arduino, RC assembly, Electrical Engineering.
- Created a car braking system using **Arduino** to enhance driving quality and reduce amount of rear-end accidents.
- Constructed **C++** code for brake pattern and speed to identify braking frequency.