

# Khaled Zaza

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## EDUCATION

### Bachelor of Science, Computer Science (Minor in Cyber Security)

May 2024

San Jose State University, San Jose, CA

- GPA: 3.7/4.0
- Relevant Coursework: Data Structures and Algorithms, Programming in Python, Advanced C++, Programming in Java, Assembly Language, Computer Architecture, Discrete Math, Information Security, Operating Systems, Computation, Programming Paradigms, DataBase Management, Computer Network, Big Data, Software Engineering.

## SKILLS

Python, C++, Java, C#, JavaScript, PHP, MySQL. Bootstarp, Laravel, Flask, Pandas, APIs, cURL, HTML, CSS, Git. Command Line, Jira, Salesforce, Agile, Operating Systems, Kali Linux. Debugging, OOP, Algorithms, data structure, UML, Networking, Cryptography, Web application security, Cloud computing. Languages: English, Arabic.

## PROFESSIONAL EXPERIENCE

### Software Engineer Intern, Motorola Solutions, Remote

May 2023 - Aug 2023

- Developed production software using **PHP** to optimize data storage, reducing the data size and improving efficiency.
- Enhanced the processing speed **database** containing over **600,000,000** images, leading to performance improvement
- Contributed to software solutions deployed in over **700 cities**, positively impacting users worldwide.
- Collaborated with product managers to conduct thorough **testing and debugging**, ensuring satisfied customers.
- Performed **code reviews** for various software releases, ensuring compatibility and maintaining high-quality standards.

### Software Engineer Intern, BlackBerry, Mountain View, CA

Jan 2023 - Apr 2023

- Designed **JavaScript** software with an **AI**-powered internal tool using **CI/CD** for improved customer interactions.
- Implemented RESTful APIs in Python to bridge front-end and back-end **databases**, ensuring seamless connectivity.
- Developed **Python** software, employing **cURL**, for secure JSON import from authenticated APIs, optimizing data flow.
- Managed database content and structure proficiently using **SQL**, ensuring data integrity and relevance.
- **Automated** support processes, significantly boosting operational **efficiency** and response times.
- Analyzed metrics to identify trends, enabling targeted improvements for optimal performance.

### Software Engineer Architect, Spartan Racing, SJSU Formula SAE, San Jose, CA

Oct 2022 - May 2023

- Developed **Python** tools to **scrape** websites, reducing data collection time by over **2,000%**.
- Optimized **simulations** using **MATLAB** (Simulink) to analyze and optimize vehicle performance.
- Built launch control systems to improve lap times during competitions using **C language**.
- **Analyzed** competition data for improvement and developed optimized performance strategies.
- Designed **flowcharts** to 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.
- 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.

## PROJECT EXPERIENCE

### Let It Fly, SJSU

Sep 2023

- Empowering airport travelers to simplify their journeys with a ride-sharing app designed for efficiency & convenience.
- Utilized **MySQL**, **Redis**, **Python**, **FastAPI**, SQLAlchemy, Jinja, HTML, CSS, **React**, and **JavaScript** for development.
- Ensured data security by implementing encryption measures and utilized **Docker** for efficient deployment and scaling.

### Indexify Application, SJSU

Oct 2022

- Enabling students to streamline their study routines with digital index cards while facilitating **multi-user** functionality.
- Leveraged **Java** and **JavaFX** to architect a user-friendly desktop application using **MySQL** for the database.
- Implemented robust **cryptography** security measures by incorporating **encrypted** password protection.