

MAHMOUD KHAFAGY

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SUMMARY

Senior software engineer with expertise in **C#, JavaScript, Python, HTML, CSS**, and technologies like **React, Vue.js, Flask, .NET Core, SQL**, and **Syncfusion**. Skilled in developing **microservices**, optimizing backend performance, and leading the implementation of modern frameworks like **SQLAlchemy**. Adept at delivering high-impact solutions with cutting-edge technologies.

EDUCATION

California State University, Fullerton Bachelor of Science in Computer Science	Fullerton, CA December 2022
Orange Coast College Associate of Science in Computer Science	Costa Mesa, CA December 2020

RELEVANT EXPERIENCE

Naval Air Warfare Center <i>Senior Software Engineer</i>	China Lake, CA March 2023 - Present
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- Developed and optimized **microservices** using **.NET Core, Vue.js**, and **SQL Server** to track naval resources, supporting data-driven budgeting decisions.
- Improved backend efficiency, reducing **response times** by **25%** through query optimization, workload distribution and removal of redundant calculations.
- Enhanced **SQL Server** performance with refined **schema design**, optimized **stored procedures**, and **migration** from **Toad** to **SQL Server**, achieving a **12% reduction** in **data retrieval times**.
- Implemented **Syncfusion components** with **Vue.js** to optimize **data visualization**, improving **UI responsiveness** based on user preferences.
- Engineered and optimized **.NET** and **WPF** solutions for **mission-critical tasks** such as **image mensuration, collateral damage estimation**, and **georegistration**.
- Improved application stability by implementing **multithreading** and **resource allocation strategies**, resolving **critical crashes**, and increasing **uptime**.
- Led **cross-functional teams** in delivering **high-priority** features, accelerating development cycles and ensuring efficient project execution.
- Managed tasks and bug resolutions in **Jira**, ensuring smooth development workflows and on-time feature delivery.

Seminaut Inc. <i>Software Engineer</i>	Austin, TX April 2022 - March 2023
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- Designed and implemented **scalable** web features using **Python, React, Flask**, and **SQLAlchemy** to enhance **user engagement** and **data accessibility**.
- Developed a **regional system** for **dynamic user distribution**, optimizing **competition structures** and **personalized recommendations**.
- Led interactive mapping development with **Mapbox API**, enabling users to locate and explore events and venues nationwide.

TECHNICAL SKILLS

Programming Languages:	Python, SQL, C#, JavaScript, HTML, CSS
Frameworks & Libraries:	.NET Core, Vue.js, Flask, React, WPF, Pandas, SQLAlchemy
Database Systems:	SQL Server, PostgreSQL, MySQL, MongoDB, Toad
Cloud Platforms:	AWS (EC2, S3), GCP
Version Control:	Git, GitHub, GitLab, Bitbucket, Sourcetree
Project & Issue Tracking:	Jira