Nathanael Metke

Embedded Software Engineer

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(203) 339-2265

ngmetke@gmail.com

https://nqmetke.dev

Profiles

nathanael-metke
LinkedIn

nqmetke
GitHub

Skills

Languages

C/C++, Ada, Python, Javascript, PHP

Tools

Git, Jira, Gitlab, Docker, Node.js

Awards

Team Technical Award
General Dynamics Electric Boat
June 2023

Individual Excellence Award
General Dynamics Electric Boat
March 2023

Senior Design Award 3rd Place
University of Connecticut School of Engineering
May 2022

Highly motivated software developer with two years of hands-on experience in designing, developing, and deploying robust software solutions. Specializes in **back-end development** and **embedded software engineering.** Proficient in multiple programming languages and frameworks, with a keen eye for detail and a passion for creating efficient, scalable code. Demonstrated ability to collaborate effectively within cross-functional teams to deliver high-quality code.

Experience

General Dynamics Electric Boat — **June 2022 to Present**
Embedded Software Engineer — Groton, CT
https://www.gdeb.com/

- Collaborated with a small team to develop a subset of ship control systems for the upcoming class of nuclear submarines.
- Updated and debugged code to resolve issues, enhancing efficiency and contributing to process improvements that boosted productivity by 25%.
- Developed systems that interfaced with low level Win32, Linux API, as well as communication protocols like UDP and serial.
- Enhanced documentation to improve code comprehension and maintenance.

University of Connecticut Information Technology — **August 2019 to June 2022**
Web Developer — Storrs, CT

- Revamped a solution to optimize administrative processes university-wide, reducing processing time by 75%.
- Provided mentorship to a team of three students, fostering collaboration and guiding the development of APIs and tools integrating with university infrastructure like Active Directory and asset trackers.
- Engineered RESTful APIs using Node.js and Express for seamless data exchange and system integration.

Education

University of Connecticut — **August 2018 to May 2022**
Storrs, CT — Bachelor's in Computer Engineering

Projects

Autonomous Search and Rescue Helicopter System Design — **September 2021 to May 2022**

- Prototyped a drone flight director and computer vision system using Simulink and OpenCV to autonomously search an area for a specific target and airlift it back to its original position.
- Collaborated closely with Sikorsky employees to gather requirements, clarify specifications, and receive feedback on the design and process.
- Conducted thorough testing and evaluation of the prototype, implementing necessary adjustments and enhancements to optimize performance and reliability.