

JOSEPH M. DEFENDRE

Software Engineer

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SKILLS & CERTIFICATIONS

- **Programming Languages:** Python, Java, JavaScript, Node.JS, C/C++/C#
- **Web Development:** HTML5, CSS, ReactJS, MongoDB, Node.Js, OOP Principles, MVC Architecture
- **Database Management:** SQL
- **Development Tools:** Visual Studio Code, Git, GitHub
- **Operating Systems:** Windows 11, macOS X

EDUCATION

Bridgewater State University

Bridgewater, MA

Bachelor of Science in Computer Science

Relevant coursework:

- *Data Structures and Algorithms, Software Engineering, Web Development* *Expected Graduation: May 2024*

PROFESSIONAL EXPERIENCE

Hack.Diversity

Boston, MA

2024 Hack.Diversity Software Engineering Fellow

Jan 2024 – Aug 2024

- Selected into 2024 Hack.Diversity Software Engineering Fellowship, a career leadership and workforce development program integrating Boston's innovation, corporate, civic, academic, and philanthropic pillars

SpaceX

Brownsville, TX

Equipment Maintenance Technician (Starship)

Oct 2021 – Aug 2022

- Implemented meticulous maintenance and repair procedures for vital spacecraft components and ground support equipment, directly contributing to the inaugural launch of the Starship on April 20, 2023, marking a monumental advancement in space exploration.
- Enhanced operational efficiency by 15% via proactive preventative and corrective maintenance of complex automation systems, crucial in the lead-up to the launch.

Unit Training Equipment Site - US Army

Camp Edwards, MA

Surface Maintenance Repairer

Apr 2018 – Nov 2021

- Conducted comprehensive maintenance and complex repairs on over 200 heavy-duty military equipment and vehicles, including tactical vehicles, artillery, and construction machinery, ensuring peak operational readiness.
- Expertly managed and performed critical repairs on intricate mechanical systems across the fleet, reducing equipment downtime by 30% and enhancing mission capability.

PROJECTS

BearChat:

University chatbot for students

Aug 2023 - Dec 2023

- *Developed a Streamlit-based AI assistant utilizing OpenAI's GPT-4 and Langchain to deliver real-time, accurate information to university students.*
- *Managed API integration and environmental variables, including setting up OpenAI API keys for secure, efficient operation.*

Military Experience

U.S Army National Guard, Interior Electrician(12R)

Camp Edwards, MA

SPC, Honorable Discharge

Apr 2015- April 2022

- *Led a team of technicians in the installation and maintenance of electrical systems, overseeing projects from start to finish; achieved 20% improvement in project completion time by implementing streamlined processes and conducting regular performance evaluations.*
- *Maintained Secret-level security clearance (June 2018–present), demonstrating trustworthiness and responsibility in handling confidential information.*

