Salvatore Skare
Software Research Engineer
331-725-7520 (salskare@gmail.com)
https://salskare.ml

Relevant Skills and Experience	• Languages: C, C++, C#, Java, PHP, Python, Lisp, JavaScript, and TypeScript • Linux administration, including Ubuntu and Red Hat • Reverse engineering, decompilers, and firwmware analysis • Embedded development in C and C++, as well ad hardware fabrication experience • Machine learning experience with Tensorflow and SciPy focusing an supervised and reinforcement learning • Docker, including multi-container orchestration • Frontend development using JavaScript, Typescript, JQuery, and Angular • Backend web development, including Python/Flask, LAMP and C#/MSSQL stacks

Education

Bachelor of Science
University of Wisconsin - La Crosse, December 2019
Concentration: Computer Science
Minor: Physics with an emphasis in Astronomy

Work Experience

Software Research Engineer — Jan 2022 – Sept 2023
GrammaTech
- Worked on various research projects for GrammaTech's research department
- Headed up work on creating robust microservice architecture for autonomic monitoring
- Worked on state-of-the-art decompiler and binary analysis technology
- In charge of implementing reinforcement learning algorithms described in research in new contexts

Full Stack Web Developer — Fall 2016 – 2021
University of Wisconsin – La Crosse
- In charge of adding features to and maintaining https://www.uwlax.edu, as well as internal web-based tools
- Worked closely with a diverse team of professionals
- Re-designed internal tooling to increase performance and remove code redundancy
- Built a blogging plugin for Optimizely EpiServer with JavaScript based templating engine
- Designed and wrote custom system monitoring tool using a Flask API and Angular frontend

Computer Science TA — Fall 2020 – Spring 2021
University of Wisconsin – Madison
- Assisted in teaching students in CS 252 - Introduction to Computer Engineering
- Designed quiz/exam questions, held office hours and graded student assignments

Research Experience

Using a Recurrent Neural Network and Articulatory Synthesis to Accurately Model Speech Output — Spring 2018 – Fall 2019
Undergraduate Research with Professor A. Sauppé
- Was awarded the Dean's Distinguished Fellow's grant
- Presented a talk at the 2019 Midwest Instruction and Computer Symposium and the 2019 National Conference of Undergraduate Research conference.

Extra-curricular Activities and Hobbies

Competed in the International Collegiate Programming Contest
Amateur Herpetologist
Robotics and electronics enthusiast
Maintaining a small home-lab with web server, DNS, DHCP, and network storage