Tim F. Lester
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Maine, USA

EDUCATION

University of Maine

B.S. Computer Engineering, minor in Mathematics

GPA: 3.9/4.0

WORK EXPERIENCE

IDEXX LABORATORIES

Senior ML Software Engineer – February 2024–Present
- Provided critical software engineering support in the development of data models and interfaces leading up to the launch of the inVueDx diagnostic platform.
- Developed an end-to-end batch processing pipeline to support results verification for a multi-modal machine learning imaging platform.
- Developed test harnesses, automation software, and best practices documentation to support data scientists and ML engineers new to working on the Databricks platform.

ML Software Engineer (Contract) – June 2023–January 2024
- Led efforts to integrate software and models developed by data scientists and machine learning engineers with software developed by embedded engineers.
- Collaborated with enterprise architects, department advisors, and project managers to integrate the same work into the broader IDEXX software ecosystem.

Embedded Software Intern – May 2022–August 2022
- Maintained software associated with the CatalystOne diagnostic platform.
- Deployed a remote agent on the CatalystOne instrument to facilitate stakeholder access to IDEXX instrumentation in veterinary clinics.

TYLER TECHNOLOGIES

Security Analyst Intern – May 2021–April 2022
- Analyzed network traffic, Windows events and networking hardware security events for client organizations.
- Contributed to the writing and verification of daily security reports to client organizations.

SKILLS

General programming – Python, Rust, Golang, C, C++, domain-driven design, test-driven development

DevOps and system management – Linux administration, Docker, Nix, Linux security, digital forensics

Data and analytics – SQL, Spark, Python, Databricks, Grafana

Other – F#, MATLAB, Assembly, Typst, Hugo static sites

PROJECTS & OTHER EXPERIENCES

VOCAL CONDITIONING UNIT – SENIOR DESIGN PROJECT

A microprocessor-based device which detects and adjusts pitches of incoming audio, similarly to commercial software such as Auto-Tune.

This work continued as my Honors thesis as an investigation into the feasibility of real time processing for my senior design project. Earned high honors designation.

PLANTS & EATERS GENETIC ALGORITHM EXTENDED – ECE 478 INDUSTRIAL COMPUTER CONTROL

Genetic algorithm written in C++, based on the plants and eaters genetic algorithm by David Eck.

UMAINE CYBERSECURITY TEAM

Vice President – April 2021–April 2022
- Led weekly meetings focused on educating recruits on various cybersecurity topics.
- Organized and deployed UMCST’s learning labs in Linux security and ethical hacking.
- Captained a team of three recruits in Hivestorm 2021.