Gabriel Larot

Software Engineer

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OBJECTIVE

U.S. Navy veteran with an active Secret security clearance and experience in software development, data science, and data analysis. Skilled in designing scalable solutions, solving real-world problems, and driving growth in dynamic environments.

EDUCATION

San Jose State University — San Jose, CA

Bachelor of Science, Data Science — December 2024

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design, Adv. Python Programming — GPA: 3.91/4.00

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, R

Operating Systems: Windows, Unix

Misc: Software Engineering, Data Science, Machine Learning, Applied Probability, Linear Algebra, Multivariate Calculus

WORK EXPERIENCE

Data Annotation – *Software Validator* — FEB 2024 - JUNE 2024

San Jose, CA (remote)

- Reviewed and validated AI-generated code (Python, Java, SQL, HTML), ensuring adherence to coding standards.
- Assessed over 500 AI-generated code samples for algorithm efficiency, readability, and scalability, enhancing system robustness.

Stanford University – *Research Scientist, Intern* — MAY 2022 - SEPTEMBER 2022

Stanford, CA

- Simulated plasma discharge and ion flow in rocket thrusters using C++ and MATLAB to improve rocket booster efficiency.
- Wrote technical reports and presented results at internal meetings with Stanford's Plasma Dynamics Modeling Laboratory (PDML) doctoral candidates, identifying minor efficiencies in algorithmic designs.

U.S. Navy – *Aviation Ordnanceman* — AUGUST 2015 - AUGUST 2021

Norfolk, VA

- Led diverse teams to assemble, repair, and test aircraft armament, setting a fleet record by assembling 10 Quickstrike mines in 2.5 hours for the Mine Readiness Assessment (MRA).
- **Managed $500,000 worth of repair parts** as the Repair Parts Petty Officer (RPPO) while maintaining 100% inventory accuracy and ensuring timely procurement to support critical divisional operations.

PROJECTS

Weather Effect on Bay Area Energy Consumption

- Built a full-stack web application using Python, Dash, HTML, and CSS to analyze regional energy demand.
- Designed **LSTM and SARIMA time-series models** to accurately forecast energy demand from historical data with a test MAE of 27.63 kWh (**7% error** relative to the average household energy consumption).
- Applied SHAP and PDP statistical techniques to identify key weather factors influencing energy consumption.

Recipe Application

- Developed a recipe-sharing application with interactive features like reviews, voting, and social connections.
- **Optimized database queries by 20%** through indexing to improve user experience.

Car Configuration Application

- Created a multithreaded Java application to manage car configurations with custom APIs for add, remove, and search functionality.