Gabriel Larot
Software Engineer

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OBJECTIVE

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

WORK EXPERIENCE

Amazon — Seattle, WA
Software Development Engineer I — *Mar 2025 - Present*
- Increased ad personalization by extending Dynamic Contextual Ads (DCA) support to Sponsored Tile (ST) rows, leading to an increase in **2% click-through rate** (CTR).
- Improved ad relevance on the Fire TV search screen by using historical search queries and cached query results to reduce delivery of irrelevant ads and **increase the proportion of highly-relevant ads by 5%**.

Data Annotation — San Jose, CA (remote)
Software Validator — *Feb 2024 - Jun 2024*
- Reviewed and validated AI-generated code (Python, Java, SQL, HTML), ensuring adherence to coding standards.
- Assessed over **300 AI-generated code samples** for algorithm efficiency, readability, and scalability, enhancing system robustness.

Stanford University — Stanford, CA
Research Scientist, Intern — *May 2022 - Sep 2022*
- 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 — Norfolk, VA
Aviation Ordnanceman — *Aug 2016 - Aug 2021*
- 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.

EDUCATION

San Jose State University — San Jose, CA
Bachelor of Science, Data Science — Aug 2021 - Dec 2024
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design, Java and Python Programming

SKILLS

Languages/Libraries: Python, Java, SQL, TypeScript, Kotlin, R, HTML, CSS, JavaScript
Misc: AWS, Git, Data Science, Machine Learning, Applied Probability, Linear Algebra, Multivariate Calculus
Operating Systems: Unix, Windows

ACADEMIC 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.