

Alexei Godfray

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EDUCATION

California State University, Sacramento

Bachelor of Science in Computer Science

Course Work: Deep Learning, Operating Systems, OOP, Algorithms and Data Structures, Networks, Java, C

Aug. 2022 – May 2026

Sacramento, CA

EXPERIENCE

Machine Learning Engineer

GoodLeap

Jun. 2025 – Present

San Francisco, CA

- Built a production RAG system for U.S. permitting codes, combining vector search with relational metadata for low-latency, section-level regulatory retrieval (*LangChain*, *OpenAI API*, *ChromaDB*, *SQLAlchemy*).
- Built and shipped a containerized, production full-stack RAG platform with a scalable web interface and robust backend services (*FastAPI*, *PostgreSQL*, *Docker*, *React*).
- Designed agentic CI/CD and evaluation pipelines to continuously validate model behavior, retrieval correctness, and system integrity (*PyTest*, *PyTorch*, *GitHub Actions*, *Ruff*).

Information Technology Developer

Public Employment Relations Board

Jul. 2024 – Jun 2025

Sacramento, CA

- Automated SolarWinds monitoring for **200** endpoints and built packet-sniffer + phishing toolkit, shrinking ticket backlog 30 % and boosting user-report rate **12 → 46 %**.
- Hardened *CradlePoint*/*Arista*/*Cisco* networks and enforced *CrowdStrike policies*, achieving zero critical incidents and **40 %** faster MTTR.
- Delivered full-stack Data Analysis case-mapping app (*React* / *Next.js*, *Node*, *PostgreSQL*, *AWS* + *Maps* + *Tableau*) that reduced analyst lookup time **50 %**.

Computer Engineer Intern

NASA L' Space Academy

May 2023 – Aug. 2023

Remote

- Authored Thermal-Management section of the Preliminary Design Review, meeting **30 ± 10 °C** spec across all mission modes.
- Prototyped closed-loop thermal controller (*Arduino/RPi*, *CMake*) and automated trade studies, cutting heater load 15 W and iteration time **40 %**.
- Performed *Siemens CAD* / *FMEA* and aerodynamic packaging for a 2.15 m UltraFlex array, lowering sensor risk **70 %** and validating single-motor deployment.

PROJECTS

TermGPT | Python, OpenAI API, Command parsing, Tool invocation, TUI

June 2024 – Present

- Built a Python terminal AI wrapper for coding and Natural Language processing tasks
- Designed a command and tool-invocation pipeline separating intent, validation, and execution.
- Implemented a real-time interactive TUI for developer workflows (Textualize).

Yelp Review Prediction AI | TensorFlow, Sci-Kit, TF-IDF, Matplotlib, Git

Dec 2025 – Dec 2025

- Built a regression pipeline to predict Yelp business star ratings from aggregated review text using a TensorFlow fully-connected network.
- Engineered the dataset by aggregating reviews per business into an `all_reviews` field and filtering to businesses with ≥ 20 reviews to stabilize labels.
- Vectorized review text with TF-IDF and trained a Dense (ReLU) model with Adam/MSE, validating with RMSE on a held-out test set.

SKILLS

Languages: Python, Java, C, R, Bash, Swift, Typescript/Javascript, HTML/CSS, SQL, PostgreSQL

Libraries & APIs: PyTorch, TensorFlow, Sci-Kit, Pandas/Polars, Selenium, React, Next.js, Node/Express

Technologies: Git, Linux CLI, SolarWinds, Dameware Remote, CrowdStrike Falcone, Sockets & Threading