

# Alexei Godfray

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## EDUCATION

### California State University, Sacramento

Aug. 2022 – May 2026

*Bachelor of Science in Computer Science*

*Sacramento, CA*

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

## EXPERIENCE

### Machine Learning Engineer

Jun. 2025 – Present

*GoodLeap*

*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

Jul. 2024 – Jun 2025

*Public Employment Relations Board*

*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

May 2023 – Aug. 2023

*NASA L' Space Academy*

*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  $\geq 20$  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 Falcon*, *Sockets & Threading*