

Arad Fadaei

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SKILLS

Languages: Javascript, Typescript, Rust, C, C++, Python, Dart, Swift, Kotlin

Frameworks/Libraries: Svelte, React, NodeJS, NextJS, Express, Flutter

Tech: Git, VsCode, Vim, Cursor, AndroidStudio, Xcode, Affinity Suite, MS Office

EDUCATION

Artificial Intelligence, Seneca College of Applied Arts and Technology

2026

Computer Programming and Analysis, Seneca College of Applied Arts and Technology

2025

Graphic Design, George Brown College

2019

PROJECTS

aethellib – Rust Composable Text generation Library [<https://crates.io/crates/aethellib>]

Personal Open Source Project

- Engineered a composable text generation library in Rust, to load, process, and validate target-specific TOML corpora.
- Designed a programmatic generation engine utilizing modular rules (literals, picks, concatenation) instead of a rigid DSL, empowering binary developers to build predictable and extensible outputs.
- Implemented first-class source provenance tracking, ensuring generated values retain traceable metadata for clear data lineage and simplified debugging.
- Developed a context-aware state management system that pools values by section and field, allowing prior results to be stored and seamlessly reused across complex generation flows.
- Published the package to crates.io and maintained comprehensive documentation for user guidance on docs.rs.

Pubsie – JavaScript EPUB Parsing Library [<https://npmx.dev/package/pubsie>]

Personal Open Source Project

- Developed a Node.js library for parsing EPUB files, enabling extraction of metadata, chapters, and resources.
- Implemented an event-driven architecture to handle parsing errors and streamline asynchronous operations.
- Designed a caching mechanism to optimize performance by storing parsed data for quick access.
- Ensured adherence to EPUB specifications, facilitating compatibility with standard-compliant files.
- Published the package to npm and maintained comprehensive documentation for user guidance.

PhishGuard - Machine Learning Phishing Detector [<https://github.com/Downmoto/nlp-PhishGuard>]

Machine Learning Project | Team Lead

- Fine-tuned a bert-base-uncased natural language processing model to detect phishing emails, achieving exceptionally high accuracy and robust predictive performance across a large, stratified test dataset.
- Engineered a robust data ingestion pipeline in Python that aggregates seven distinct datasets, cleans raw text (stripping HTML, masking URLs and PII), and exports partitioned Parquet files.
- Developed an interactive web interface using Gradio, featuring an attention-based explainability module that highlights the specific tokens driving the model's predictions.
- Implemented software engineering best practices across the project, including centralized YAML configuration, automated testing with PyTest, and deployment scripts for publishing to the Hugging Face Hub.
- Constructed a fully automated, end-to-end command-line workflow that seamlessly connects data ingestion, training, and deployment scripts into a reproducible developer experience.