ZACHARY KLEIMAN| Kew Gardens, NY | zacharymkleiman@gmail.com | (917) 748-6503

therootuser.dev ● Github:https://github.com/Zacharymk1213 ● GitLab: gitlab.com/ZacharyKleiman

EDUCATION

WGU | Bachelor of Science in Computer Science | 2025

Certifications Obtained: Linux Foundations Certification, Axelos ITIL Foundation Certification

Transferred from: CUNY Queens College | Bachelor of Science in Computer Science | 2022 – 2024 | GPA: 3.65

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (Node.js), Java, ANTLR4, SQL, Bash,

Web & Backend: REST APIs, Spring Boot, Express, HTML/CSS, Linux, Nginx

Data & ML: PostgreSQL, SQLite, scikit-learn, data cleaning, feature engineering, K-fold validation

DevOps & Infra: AWS, DigitalOcean, CI/CD, server provisioning, cost optimization, logging & metrics (AWStats)

EXPERIENCE

Web Developer (2024-Present)

- Built and operated rabbimayerschiller.com on a paid basis, a production-scale Spring Boot document and media archive (39k+ annual users), personally digitizing and ingesting primary-source materials from numerous institutions, implementing full-stack infrastructure and ingestion pipelines, and cutting hosting costs by 54% while maintaining performance. Ported from an initial Express implementation (2024-2025).
- Built timrosen.com in Express (2025), a platform for Prof. Tim Rosen to market his books and blog.

Open Source Work (2023-Present)

- Created the Windows pipeline for Gnome Text Editor (2023), enabling the application to be successfully built and deployed on Windows for the first time.
- Built dar.js (2024-2025), a TypeScript-based transpiler converting the DAR Language to HTML, now publicly promoted and heavily used in daily editorial workflows by Pninim, with supervisor crediting it for a multi-level improvement in publication quality; separately reimplemented the DAR grammar in JavaScript using ANTLR for DarANTLR (2025-2026), completing a full rewrite and HTML-emitting visitor in a 2-week sprint with 162 unit tests.
- Developed a Python-based bulk file search tool for Community Board 7 that indexes and searches the contents of Word documents to organize poorly named files, significantly reducing manual sorting time and earning approval for official internal use from both the district manager and IT staff and later released as an open-source app called File Searcher. (2024-2026)
- Built the Connections App which allows for the efficient documentation and retrieval of information about one's network in a database and released it on the Snap Store with Windows and Linux builds being on Github. (2025-2026)
- Built the Mental Health Tracker app providing users with an efficient means to monitor mental health symptoms and see historical graphical reports. Provided Windows and Linux builds on Github. In discussions to further expand this and provide the app to therapists for use with clients (2025-2026).
- Created the official SRT grammar for the ANTLR/grammars-v4 repository, the world's primary collection of language specifications used by major tech firms such as X, Apple and Apache for compiler and tool development. (2025)
- Built and maintained cross-platform CI/CD pipelines for Benedek Farsang's CLI Calculator, enabling the application to be ported from Linux to macOS and Windows; contributed unit tests and bug fixes for improved reliability. (2026)

Machine Learning (2025)

- Analyzed 1.0M+ Big Five personality records merged with multi-year CATO Human Freedom Index data, building a full cleaning and imputation pipeline and training models achieving $R^2 = 0.50–0.79$ across 8 political freedom categories, validated via K-Fold and documented in an academic-style paper. (2025)