Nikan Radan

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SUMMARY

Computer Science graduate specializing in high-performance JVM systems, machine learning, and full-stack development. Published open-source software with over 3 million cumulative downloads across a portfolio of projects.

PROJECT

Customer Churn Prediction

nikanradan.com/portfolio/customer-churn-prediction/

· Engineered a logistic-regression Customer Churn Prediction system in strongly typed Python (pandas, scikit-learn), building an end-to-end Pipeline with a ColumnTransformer (OneHotEncoder + MinMaxScaler), stratified 80/20 split, and persisted artifacts (joblib) to eliminate retraining overhead.
· Developed a desktop GUI with CustomTkinter to ingest Excel (.xlsx), enforce field validation, and enable one-click training and probability-based scoring, complete with light/dark modes for usability.
· Applied robust preprocessing and imbalance handling (Yes/No mapping, one-hot encoding, numeric normalization, LogisticRegression with class_weight=balanced), achieving ~75% accuracy and ~77% recall on churners on the held-out test set.

Car Shop

nikanradan.com/portfolio/car-shop/

· Engineered a Car Shop management application using Spring Boot, facilitating efficient handling of inventory, sales, and customer engagements.
· Designed and implemented a sophisticated SQL database schema to optimize data storage and retrieval processes for vehicle information, boosting performance and scalability.
· Created intuitive and responsive user interfaces employing Spring MVC, enhancing user experience through seamless navigation and immediate access to vehicle data.
· Utilized Gradle to enhance the build process, automating the setup by downloading Node.js and NPM as needed, and employing these tools to transpile TypeScript, ensuring a streamlined development environment with no manual configuration required.

Event Library

github.com/SmushyTaco/Event-Library/

· Built a high-performance Kotlin/JVM event bus using LambdaMetafactory for optimized handler invocation (~18ns dispatch).
· Designed structured exception handling framework with typed, prioritized @ExceptionHandler resolution.
· Benchmarked with JMH vs Guava/GreenRobot/MBassador; achieved up to 70× higher multi-threaded throughput.
· Published to Maven Central and developed IntelliJ plugin for static handler validation and developer tooling.

EDUCATION

Master's in Computer Science

Western Governor's University · Millcreek, UT · 2026 · 4.0 GPA
· Artificial Intelligence and Machine Learning specialization

Bachelor's of Science in Computer Science

Western Governor's University · Millcreek, UT · 2025 · 4.0 GPA

AWS Certified Machine Learning – Specialty

Amazon Web Services · Seattle, WA · 2026

Linux Essentials

Linux Professional Institute · Saint John, Canada · 2025

ITIL 4 Foundation

AXELOS Global Best Practice · London, United Kingdom · 2025

SKILLS

Java, Kotlin, Python, Spring, Spring Boot, Gradle, SQL, C, C#, Git, HTML, CSS, JavaScript, TypeScript, React, Tailwind CSS, Data Analytics, NodeJS, Full-Stack Development, Web Development, Software Design, Project Management, Game Modding, Code Injection, Math, Problem Solving and Analytical Skills, Object-Oriented Programming, Database Management, Version Control, Machine Learning, Artificial Intelligence