

# HARSIRAT (HARRY) GREWAL

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## PROFESSIONAL SUMMARY

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Software Engineer with 1+ years of experience in full-stack development and modernizing legacy .NET/AngularJS stacks to Next.js/React, building secure OAuth2/OIDC auth, and standing up CI/CD with GitLab. Seeking a path to higher-responsibility software engineering focused on AI—shipping Machine Learning powered features and operationalizing models.

## EDUCATION

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**JOHNS HOPKINS UNIVERSITY** | Baltimore, Maryland | Master of Science in Artificial Intelligence | 4.0 Aug 2026

- Relevant Projects: K-Means Clustering, Random Forest Classification, Naive Bayes, Computer Vision

**OAKLAND UNIVERSITY** | Rochester, Michigan | Bachelor of Science in Computer Science | 3.5 Aug 2024

- Activities and societies: Mathematics Student Society, Robotics Association, Data Science & Decision Society

## TECHNICAL SKILLS & CERTIFICATIONS

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**Programming Languages:** Python, JavaScript/TypeScript, C#, Java

**Frontend Development:** React, Next.js (SSR/SSG), Material UI, HTML5, CSS3, Jest (unit testing)

**Backend & APIs:** Node.js, Express, .NET, Flask, RESTful APIs, SOAP, Oracle, SQL (RDBMS design & optimization)

**Cloud & Infrastructure:** AWS (Lambda), Microsoft Azure, Docker, Linux, IIS, Hyper-V, VMware

**Identity & Security:** Okta, OAuth2/OIDC, Reverse Proxying, STIG remediation

**DevOps & CI/CD:** Git, GitLab (Pipelines, MR templates, caching), Jenkins, Vercel

**Tools & Platforms:** Jupyter Notebook, Visual Studio, VS Code, ServiceNow

**Certification:** JIRA Software Essentials

## RELEVANT EXPERIENCE

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**Software Developer** | DCS Corporation | St. Inigoes, Maryland September 2024 – August 2025

- Analyzed approximately 100k lines across the legacy system (C#/.NET), prioritizing and upgrading deprecated libraries, and re-implementing core flows with cleaner interfaces, reducing build time from 10 minutes to 2 minutes, and eliminating all critical deprecation warnings
- Migrated AngularJS views to SSR/SSG pages on Next.js behind IIS, introducing React component libraries (Material UI) and splitting code, decreasing redundancy in UI code by 30%
- Secured an initially unauthenticated application by introducing a reverse proxy and Okta OIDC/OAuth2 with short-lived tokens and refresh flow, resolving 12 of 12 STIG findings
- Rebuild key Oracle procedures using REST endpoints and SOAP adapters, reducing integration defects by 55%
- Stood up GitLab CI/CD pipelines with automated builds, tests, and deployments, reducing release time by 20%

**IT Intern** | Alix Partners: (Full-Time Internship) | Southfield, Michigan September 2022 - August 2023

- Automated Active Directory role assignments, streamlined VMware provisioning, and enhanced MFT workflows, minimizing setup time by 25%
- Built a PowerShell script for auto-assigning ServiceNow tickets, decreasing triage time and improving average resolution time by 10%
- Developed an AWS Lambda function for real-time monitoring and auto-recovery, reducing AWS downtime response to under 1 minute

## RELEVANT PROJECTS

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- **Forest Fire Prediction:** Developed a two-stage pipeline using K-Means clustering and Random Forest to classify wildfire risk into five tiers from ~100k hourly weather records, achieving ~100% accuracy across metrics and validating with cross-validation, confusion matrices, and silhouette scores
- **Face Recognition using Eigenface & Naive Bayes:** Implemented a PCA-based Eigenface and Naive Bayes pipeline with z-score normalization, boosting accuracy from 27% to 88% via 10-fold cross-validation, hyperparameter tuning, and visual evaluations with heatmaps and classification reports