

HARDIP SINGH DHALIWAL

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Professional Summary

CompTIA Security+ certified Computer Science professional with expertise in software development, logistics automation, and machine learning. IEEE-published researcher with proven results in neural network optimization. Experienced in enterprise TMS platforms, building Chrome extensions and Electron apps, and IT deployment. Currently pursuing a Master's degree to deepen expertise in advanced computing.

Core Competencies

Software Development • Process Automation • Machine Learning • Chrome Extension Development • Network Security • Threat Analysis & Vulnerability Management • IAM • Incident Response • Risk Management • TMS Platforms (McLeod, e2open, Project44, Transporeon) • Desktop Deployment & Reimaging • Data Analysis • Technical Support • Problem Solving • Team Collaboration

Education

Master of Science in Computer Science

Pursuing

California State University, Fresno

Fresno, CA

Bachelor of Science in Computer Science

Graduated: May 2024

Work Experience

Khalsa Transportation Inc.

January 2026 – Present

Logistics Coordinator, Dispatcher & Data Entry

Fresno, CA

- Manage end-to-end freight operations for Frito-Lay/PepsiCo across McLeod, e2open, Project44, and Transporeon; coordinate dispatch, load tendering, and real-time shipment tracking
- Perform high-accuracy data entry for shipment records and carrier assignments; analyze operational data using Excel (pivot tables, formulas) to improve dispatch efficiency
- Built Tampermonkey scripts and Python pipelines to automate e2open alert polling, ETA entry, and shipment data formatting, reducing manual data entry
- Communicate with carriers, shippers, and receivers to resolve in-transit issues and ensure on-time delivery performance

Navista (via Insight Global)

June 2026

Desktop Refresh Technician – Contract

Fresno, CA

- Deployed and configured ~100 workstations in a single-day enterprise desktop refresh: hardware swap-outs, OS reimaging, domain join, and user data migration with zero data loss
- Installed software packages, validated application functionality, asset-tagged hardware, and staged decommissioned units for disposition

Research Assistant, Weight Quantization Project (USDA Partnership)

January 2024 – May 2024

USDA – California State University Partnership Program

Fresno, CA

- Led ML research optimizing MLP neural networks through weight quantization; developed MATLAB algorithms for training, pruning, and quantizing weights using 4-bit, 8-bit, and 16-bit representations
- Achieved 88.5% model size reduction while maintaining 97% classification accuracy across 5 handwriting datasets (Bangla, CVL, Devanagari, MNIST, Oriya)
- Co-authored two research papers; presented at CSCSU 2024 and IEEE SMC 2024 (Kuching, Malaysia)

Customer Service Support Agent

March 2019 – December 2022

Verizon (via Alorica)

Fresno, CA

- Provided technical support to 50+ daily customers with 95% satisfaction rating; processed 200+ monthly account changes using Verizon CRM systems and consistently exceeded 110% of performance targets

Projects

AI Job Application Filler | *JavaScript, Chrome Extension (MV3), Gmail API, REST APIs* **2026**

- Built a Chrome extension that auto-fills job applications across ATS platforms (Workday, iCIMS, Greenhouse, Paycom) using AI-powered field mapping with Claude, Gemini, and Groq APIs
- Integrated Gmail OAuth for sending applications with AI-generated cover letters (A/B tested); built tracker dashboard with CSV export and full-history Gmail sync
- Implemented Easy Apply automation for LinkedIn/Indeed with multi-step form navigation, resume injection, and confirmation-gated submission

EverView | *Electron, JavaScript, Node.js* **2025**

- Developed cross-platform desktop app using Electron with BrowserView embedding, IPC communication, always-on-top window management, and virtual keyboard with QWERTY/symbol modes

Raspberry Pi Homelab | *Linux, WireGuard, Pi-hole, Nginx, systemd* **2025 – Present**

- Configured PiVPN (WireGuard) for encrypted remote VPN access, Pi-hole for network-wide DNS ad/tracker blocking, and a self-hosted web server; all running as persistent systemd services on Raspberry Pi 5

Face Recognition with CNN | *Python, MATLAB, OpenCV* **Fall 2023**

- Built a CNN for face recognition on the LFW dataset using Python (OpenCV, scikit-learn) and MATLAB; evaluated with confusion matrices, ROC curves, and multi-threshold accuracy benchmarks

Publications

Post-Training Quantization in Brain-Computer Interfaces Based on Event-Related **October 2024**

Potential Detection

- H. Cecotti, D. Dhaliwal, **H. Singh**, Y. Meena – IEEE SMC 2024, Kuching, Malaysia

Weight Quantization in Extreme Learning Machines: Application to Handwritten **Spring 2024**

Character Recognition

- H. Cecotti, **H. Singh** – CSCSU 2024 Symposium, California State University

Technical Skills

Programming: Python (NumPy, pandas, matplotlib), JavaScript (ES6+), MATLAB, Java, C++, SQL, Bash
Web & Automation: HTML5, CSS3, Electron, Chrome Extensions (MV3), REST APIs, OAuth, Gmail API, Tampermonkey, Git
Security: Network security, threat analysis, vulnerability management, SIEM, log analysis, firewalls, IDS/IPS, endpoint security, cryptography, PKI, IAM, incident response, risk assessment, cloud security, zero trust, GRC
IT & Infrastructure: Windows/Linux administration, OS reimaging, domain join, data migration, WireGuard VPN, Pi-hole, Nginx, systemd
ML & Data: Neural networks, weight quantization, pruning, CNNs, OpenCV, scikit-learn, MATLAB Toolboxes, statistical modeling
Logistics: McLeod, e2open, Project44, Transporeon, freight dispatch, load tendering, shipment tracking

Certifications

CompTIA Security+ (SY0-701) – Achieved July 2026