VINCENT A. ROBBINS

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Work Experience

Software Engineer — Security March 2022 - December 2024
Edgio (now Edgecast)

- Architected and engineered a continuously running distributed XGBoost ML model detecting CDN threats in 3B+ daily requests
- Researched and implemented network features, enabling model to detect and categorize automated threats (e.g. spoofing, scalping, API abuse) with 99.6% accuracy
- Added continuous deployment, monitoring, and mitigation strategies for above model, securing 10k+ websites across 20k+ edge servers
- Added geolocation to CDN firewall, enabling region-based rules and sanction compliance
- Optimized firewall's Access Control List, increasing processing speed by 35% and capacity 10x while maintaining sub-ms latency
- Launched HTTP-body schema validation with a REST API for customers to manage their sites' rules, blocking injection and data exfiltration

Skills

- *Programming Languages: Python, C/C++, SQL*
- *Tools: Linux, Git, Docker, S3, Kubernetes, Jupyter, Spark, Redis, Pandas, Clickhouse, Flask, nginx, Airflow, MLFlow, Cursor*

Education

B.S. Mathematics, Computing Specialization June 2016 - June 2020
University of California, Los Angeles

- Relevant Coursework: C++, Java, Algorithms, Numerical Methods, Statistics, Linear Algebra, Discrete Structures, Mathematical Logic

Projects

NSS Chapter Websites (socalgrotto.com, sdgrotto.com) Jan 2025 - Present
Southern California Secretary & Volunteer Contributor

- Built and maintained web content for SoCal and San Diego chapter of the NSS
- Tested OCR models and transcribed 700+ degraded monthly newsletters dating from 1958 using MistralAI

Food Recipes App August 2025 - Present

- Created Next.js social-media-style recipe sharing progressive web app currently using Supabase for authN, authZ, media, and transcoding and deployed on Vercel

Connect-4 AI and GUI

- Created AI with adjustable difficulty using Minimax Algorithm with Alpha-Beta Pruning and win-rate of 99.983% against a Random AI