Vincent A. Robbins

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Summary

Software Engineer specializing in detection engineering, incident response, and large-scale multi-tenant platform security.

Work Experience

Software Engineer — Platform Security   March 2022 - December 2024
Yahoo! Inc. → Edgio (now Edgecast)

- Owned the CDN's distributed ML threat detection pipeline for bot abuse in 3B+ daily requests, securing 10k+ websites across 20k+ edge servers
- Analyzed and engineered security signals that improved threat detection accuracy to 99.6% and categorized attacks (e.g. spoofing, fraud, API abuse)
- Launched API Security engine implementing JWT authentication and schema validation with traffic-aware suggestions engine, rapidly and securely onboarding customer APIs
- Responded on-call and met weekly with SOC and top clients to triage incidents, deploy hot-fixes, and mitigate threats — reducing mitigation time up to 85%
- Profiled and optimized multi-tenant firewall's Access Control, increasing speed 35% and capacity 10x while maintaining <1ms latency
- Enabled region-based compliance policies by integrating MaxMind IP geolocation to the firewall and extended the rule engine

Skills

- *Programming Languages: Python, C/C++, SQL, Go*
- *Infra: AWS, Kubernetes, Docker, Redis, Linux, Kibana, Kafka, Elasticsearch*
- *Data/ML: Spark, Clickhouse, MLFlow, Pandas, Airflow*
- *Dev Tools: Gitlab, Jupyter, Grafana, Jira*

Education

B.S. Mathematics, Computing Specialization   June 2016 - June 2020
University of California, Los Angeles
L1 Cave Rescue Task Force Member, National Cave Rescue Commission   July 2025

Projects

Cave Exploration Platform & AI Archival   Jan 2025 - Present
National Speleological Society - Secretary of Southern California Region

- Developed platform for official cave exploration in Southern California with role-based access controls (trip leader, rescuer, board member, waiver-signee, etc.)
- Created AI pipeline transcribing 700+ degraded monthly newsletters (1958-Present) and categorizing reported trips by cave, facilitating cave condition safety research

Food Recipes Platform   August 2025 - Present

- Developing social-media recipe feed app with media transcoding and CDN acceleration