

NICHOLAS LIN

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TECHNICAL EXPERIENCE

SLACK

Software Engineer

Associate Software Engineer

Software Engineering Intern

San Francisco, CA

Aug 2023 - Present

Sept 2022 - Aug 2023

May 2021 - Aug 2021

- **Led Vulnerability Management Platform Development** - Architected and implemented a platform with REST APIs to manage thousands of vulnerabilities at scale, aggregating **>10k findings/week from 10+ disparate sources**
 - Freed security engineers from manual deduplication, validation, logging, and ticketing of vulnerabilities identified across Slack's FedRAMP-compliant static and runtime assets, **saving >100 engineering hours**
 - **Designed core data models** and implemented fundamental **API logic**
 - Proactively identified and resolved performance bottlenecks through database query optimization, lazy loading implementation, and batched operations, **improving API performance by 1200x** (3 minutes → 150 ms response time)
 - Implemented **automated ticket closure system** for remediated vulnerabilities with >70% successful auto-closing rate
 - Built with Python, FastAPI, GraphQL, and AWS RDS; deployed using Terraform and Docker on Kubernetes
 - [Presented architecture at OWASP Global SF Conference 2024](#)
- **Led Secure Development Lifecycle (SDL) Automation** - Developed, owned, and maintained a Slack Bot used by across all product and engineering teams as the entrypoint to security, compliance, and legal processes
 - Collaborated with Legal, Risk, Compliance, and Privacy teams to consolidate workflows, eliminating duplicate processes and **improving the developer experience org-wide by saving >10 hours/week across the organization**
 - Iteratively integrated feedback from engineering teams, added features for early risk detection, improved communication and drove alignment between product teams and stakeholders
 - Implemented as a Python service with Slack SDK using SQL database on AWS RDS
- Developed Hack static analysis tooling with Semgrep to assist Slack's expansion into public sector agencies through FedRAMP high compliance. [Open-sourced tree-sitter grammar under Slack](#) and published a [Slack Engineering blog post](#).
- **Demonstrated Technical Excellence**
 - Consistently received a **Highly Successful performance rating** from multiple managers (2024-2025)
 - **Mentored** junior engineers and interns, providing technical guidance that contributed to successful project deliveries and conversion offers. **Conducted technical interviews** and contributed feedback for 4 L6+ engineering hires

PROJECTS

[Lord of the Rink](#) – Improving Ice Hockey Performance through Gamified Training

- Used by 120 youth hockey players across different teams, contributing to [winning](#) the 12U AAA regional championship
- Fully designed, developed, and deployed a Django full-stack application on AWS with ElasticBeanstalk and RDS

[Vibe](#) – Giving 10k Spotify users incredible insights into their listening habits

- Designed and fully developed a web application with React JS, to compare, analyze, and visualize years of Spotify user data
- Attracted 10,000 organic Spotify users from 50+ different countries within a month

SKILLS

Languages & Frameworks: Python, Java, JavaScript, TypeScript, FastAPI, GraphQL, React, Django, C++

Infrastructure & DevOps: AWS (EC2, Lambda, Step Functions, RDS, DynamoDB), Docker, Kubernetes, Terraform, CI/CD

Software Engineering: API Design, SQL/NoSQL Databases, System Architecture, Security Engineering, Automation

EDUCATION

UNIVERSITY OF VIRGINIA

Bachelors, Computer Science, GPA: 4.0/4.0

Charlottesville, VA

May 2022

Echols Scholar (top 5% based on superior academics), **GGV Capital Fellow** (1 of 20 students from 600+ applicants)