Nicholas Doorlay

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EXPERIENCE

Amazon Web Services   **San Luis Obispo, CA**
Junior Software Development Engineer   *October 2020 – Present*
- Designed and implemented a generalized input service that reduced my team's development time for new data pipelines from 2 months to 8 hours, directly resulting in 100,000+ additional malicious domains being blocked on the AWS corporate network
- Implemented a microservice to continuously ingest threat data from Recorded Future, enabling Amazon Route 53 to offer this data using AWS Managed Domain Lists (link). Created a system to dynamically adjust risk scores based on threat type and source
- Managed global rolling deployments through CI/CD pipelines, writing unit and integration tests and tracking metrics to validate system health
- Designed, implemented and maintained a microservice to notify my team prior to email DNS overrides going stale, allowing my team to fix broken overrides before customer reach outs
- Optimized my team's API via memoization and algorithm refactoring, resulting in a 78% reduction in latency for all API users
- Added support for new threat types within our generalized input service, resulting in 7,000+ additional malicious threats being blocked on AWS endpoints
- Migrated legacy infrastructure and code to CDK and SDK, creating a quicker development lifecycle

Swanton Pacific Ranch   **Santa Cruz, CA**
Software Engineering Intern   *March 2020 - April 2020*
- Developed a script to automate rainfall data collection and manipulation processes, reduced running time of process by 95% per request
- Created and delivered tools and associated documentation to a non-technical audience

Born This Way Foundation   **New York City, NY**
Reporter, Co-author   *January 2018 - November 2020*
- Co-authored the New York Times' best-selling book *Channel Kindness* with Lady Gaga
- Wrote profile pieces on various non-profits, generating thousands of views every month

EDUCATION

California Polytechnic State University   **San Luis Obispo, CA**
B.S. Computer Science, GPA 3.50   *Graduation Date: June 2023*
- Security Education Club, Climbing Club, Intramural Basketball, Dean's Honors List

SKILLS & INTERESTS

Skills: Amazon Web Services | Python | Java | JavaScript | Bash | Git | CI/CD | Linux

Interests: Computer Security, Cloud Infrastructure, Guitar, Rock Climbing, Hiking, Basketball