

# Nicolo DiFerdinando

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## EDUCATION

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- **California Polytechnic State University, San Luis Obispo** San Luis Obispo, CA  
*Bachelor of Science in Industrial Engineering* Sept. 2021 – June. 2026  
**Relevant Coursework:** Data Science, Data Analytics, Data Management and System Design, Operations Research, Design and Manufacturing, Statistics for Engineering  
**Process Improvement Fundamentals:** Developed an understanding for reducing waste in project management, scripts, and overall tech  
**Engineering Test Design and Analysis:** Curated optimization strategies for workflow and deployment  
**Certifications:** CompTIA Security+, Splunk Core Certified User

## EXPERIENCE

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- **Cal Poly San Luis Obispo** San Luis Obispo, CA  
*Assistant Student SOC Analyst* 2024-Current
  - **Cybersecurity Response:** Analyze and respond to suspicious logins, phishing emails, and network traffic using Splunk Enterprise to mitigate threats.
  - **Python-based Slack Automation:** Created a Python-based Slack application to automate tasks such as email confirmation, suppression, and blocking procedures.
  - **Splunk Soar Integration:** Integrated Splunk Soar Playgrounds, SSH commands to block and suppress users, and Slack Bolt APIs to get button and modal interactivity.
- **loanDepot** Irvine, California  
*Cyber Security Intern* 2022
  - **Cyber Threat Intelligence:** Aided in the Cyber Intelligence team's threat prioritization based on incoming threat intelligence (actor-based and behavior/tactic-based).
  - **Incident Investigations:** Assisted members of Cyber Operations teams (SOC and CIRT) in incident investigations, requiring intelligence assistance.
  - **Security Compliance Audits:** Performed compliance audits against institutionally accepted security controls.
- **Kappa Sigma - Cal Poly San Luis Obispo** San Luis Obispo, CA  
*President - Risk Manager* 2021 – 2024
  - **Leadership and Management:** Worked in coordinating an executive committee to head and direct community service, fundraising, and philanthropy events.
  - **Event Planning and Coordination:** Lead and facilitate all chapter executive meetings, and chapter meetings, attend national events, and coordination with other fraternities on campus.
  - **Financial Oversight:** Collaborated with the treasurer to manage the chapter's budget.

## PROJECTS

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- **IP Blocklist Automation:** Created an automation playbook that streamlines the process of managing a block list from a 3rd party service using Splunk and Splunk SOAR.
- **HomeLab:** Configured a home server using Plex, Bitwarden, WireGuard, and Grafana with Docker.
- **Card Trading Business Database Design with MySQL:** Collaborated on designing and implementing a database system for 'Select & Collect Cards,' a chain of trading card game stores, focusing on inventory, sales, and customer data management to streamline operations and enhance traceability.

## CAMPUS INVOLVEMENT AND VOLUNTEER WORK

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- **Kappa Sigma, President** Dec 2022 – Mar 2023 (President), Sept 2021 – Present (Risk Manager)
- **Cal Poly Club Baseball Team, Player** Sept 2023 – Current

## SKILLS

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**Languages:** Python, SQL, Java, TypeScript, Splunk Soar Environment

**Skills:** Next.js, Node.js, Docker, Supabase, Six Sigma, LEAN Manufacturing, Splunk, Excel, Linux, git, Slack, SOLIDWORKS, Minitab, Jira