Nathaniel C. Boyle

Las Vegas, Nevada
(805) 448-2546
nathanielcross.boyle@gmail.com
www.linkedin.com/in/n8cboyle

Summary

Results-driven and inspired professional with a strong foundation in cybersecurity and IT audit, leveraging expertise in Python, SQL, and data analytics to enhance security and compliance. Designed and developed innovative web applications, including a time-tracking system, and achieved a bronze medal in a national AI competition. Proven ability to reduce vulnerabilities and automate audit processes, with a track record of delivering actionable insights in high-stakes environments. Adept at bridging technical and business needs to drive organizational success.

Work Experience

Senior Internal Auditor - IT:
MGM Resorts International   **Las Vegas, NV: 07/2025 – Present**
- Conduct IT audits to evaluate the effectiveness of internal controls, security measures, and compliance with industry standards (e.g., NGCB-MICS, PCI DSS, NIST) for gaming and hospitality systems.
- Assess risks and controls related to IT infrastructure, including cloud environments, gaming platforms, and guest data systems, to ensure data integrity and confidentiality.
- Document audit findings, prepare detailed reports, and present recommendations to management to enhance IT governance and risk management.

Full-Stack Developer (Contract):
UpToStudy   **Las Vegas, NV: 10/2024 – 07/2025**
- Spearheaded the full-stack development of a web application.
- Developed and optimized the front-end using HTML, CSS, and JavaScript.
- Engineered the back-end architecture with PHP, including the design, implementation, and management of the MySQL database.

Financial Systems Analyst:
CleanSpark, Inc.   **Las Vegas, NV: 01/2024 – 08/2024**
- Administered the ERP system for the entire company, managing and responding to tickets.
- Designed and published custom dashboards for employees.
- Created and implemented the Company's first centrally and manually maintained user access log for all systems.
- Improved IT audit evidence and speed using advanced querying and programming techniques.

Senior Auditor:
Deloitte   **Las Vegas, NV: 10/2021 – 10/2023**
- Gained significant experience with project planning and management of team staff.
- Conducted reconciliations of financial data support provided by clients and third parties.
- Formatted spreadsheets of client data for automation and testing, improving task completion time.

Education

MBA in Management Information Systems	12/2025
Graduate Certificate in Cybersecurity	12/2025
University of Nevada, Las Vegas (UNLV)	Las Vegas, NV
Master of Science in Accountancy	12/2019
California State University, East Bay (CSUEB)	Hayward, CA
BA in Economics: Data Analytics Specialization	06/2017
University of California, Davis	Davis, CA

Portfolio

N8sPage.com/portfolio

Skills

Computer Languages
- C++
- Java /
- JavaScript
- Python
- PHP
- R
- SQL

People Skills
- Compliance Implementation
- Customization Requests
- Helpdesk Response
- Interdepartmental -Collaboration
- System Administration
- User Training

Techniques
- Application Development
- Dashboard Publishing
- Database Configuration
- GUI/Web Design
- Machine Learning
- Query Creation/Optimization
- Regression

Certifications
- CISA (Exam passed)
- CEH
- CompTIA Tech+
- Splunk Power User
- Microsoft Azure AI Fundamentals (AI-900)
- Google Cybersecurity
- UC Davis Learn SQL Basics for Data Science
- Google Data Analytics
- CompTIA Security+ (in progress)

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Projects

UpToStudy

- o A fully functional web application created by students for students to assist in studying and planning
- o Created with HTML, CSS, JavaScript and a XAMPP stack
- o Hosted on AWS using a Lightsail instance
- o User features include:
  - A dashboard, calendar, course, study, and goals page
  - The ability to create:
    - Courses, assignments, to-dos, and events which are all displayed on the calendar
    - Sets of flashcards or multiple-choice questions and engage in study sessions which are tracked to gauge learning progress
    - Goals and goal sets for a semester of school year
  - A support ticket system
  - Editable profile
  - Email verification

E.D.W.A.R.D.

- o Desktop executable application used for financial analysis and mock financial statements
- o Coded entirely with Python
- o Users upload a CSV file of a trial balance and are able to use the following features:
  - Produce preliminary Balance Sheet and Income Statement documents using a custom template
  - Produce various visualizations of financial data including financial ratios and trend graphs
- o E.D.W.A.R.D. (the Electronic Data Writer Analyzer Reporter and Documenter), is a play on the SEC's "EDGAR" site

THE BOYLE FAMILY CASINO

- o Desktop executable virtual casino application/game with a retro feel
- o Coded entirely with Python
- o Features include:
  - Video Poker complete with visualizations and audio (Best of Frank Sinatra)
  - Blackjack complete with visualizations and video/audio link (Roast of Frank Sinatra)
  - Star Wars themed slot machine game complete with audio (a different Star Wars theme for each planet/level)

Awards & Competitions

Data4Good 2024 Competition

The Data4Good Case Competition, hosted by Purdue University's Mitch Daniels School of Business, is a national analytics contest where student teams use data and AI to address social issues, like healthcare automation (2023) or survivor support (2024). Sponsored by Microsoft and others, it offers training, certifications, and regional/national rounds. In 2023, 282 teams from 72 U.S. colleges participated, with top teams presenting at Purdue's West Lafayette campus. My team took first place regionally, and bronze nationally, in the graduate division.

NCAE 2025 Cybergames

The NCAE Cyber Games, hosted by the National Centers of Academic Excellence in Cybersecurity (NCAE-C) and sponsored by the NSA, is a collegiate cybersecurity competition designed for first-time competitors. It introduces college students to cyber competitions through a supportive environment focused on teamwork, skill-building, and confidence. Participants engage in challenges like Capture the Flag (CTF), system hardening, and defending networks against live red-team attacks. The team I lead took second place for the southwest region.

Student Organizations

UNLV Cyber Clinic

Former intern, Compliance Officer, and now the Vice President of the UNLV Cyber Clinic, a student-led initiative at the University of Nevada, Las Vegas, where students provide no-cost cybersecurity assessments and education to small businesses, addressing risks like hacking and phishing. Participants gain hands-on experience, earn certifications (e.g., CompTIA Security+), and engage in events like DEFCON, various CTFs, and cybersecurity summer camps for high schoolers.