

# BOYD C. MONSON

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## SUMMARY

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Mathematics-trained operations analyst with 6+ years managing complex federal grant portfolios, budgeting workflows, reporting processes, and cross-functional systems. Experienced in Python, SQL, Excel, and full-stack project work, with a track record of turning ambiguous operational requirements into structured processes, reliable data workflows, and decision-ready reporting. Seeking operations analyst, business analyst, data operations, or technical operations roles focused on systems, data, and problem-solving.

## TECHNICAL SKILLS

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**Data & Analysis:** Excel, SQL/SQLite, Python, pandas, budgeting, forecasting, reporting, data cleaning

**Systems & Development:** FastAPI, React, TypeScript/JavaScript, Vite, Uvicorn, API design, CSV import/export

**Business Systems:** Sage Intacct, Blackbaud, RuffaloCODY

**Operations Strengths:** process improvement, documentation, training non-technical users, cross-functional coordination

## SELECTED PROJECTS

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### Inventory System for Complex Goods (Magic: The Gathering)

Public Repository

- Built a full-stack inventory and valuation system for complex, variant-heavy collectible goods, translating messy product, pricing, and ownership data into searchable inventory records, auditable transactions, and usable valuation reports.
- Architected a dual-mode platform that runs as a local-first SQLite application or a hosted single-host shared service, supporting both offline personal workflows and authenticated multi-user access.
- Created backend data workflows for Scryfall/MTGJSON ingestion, SQLite schema and migrations, inventory-domain services, transactional mutation flows, pricing, valuation, reporting, CSV and deck import/export, and per-edit audit logging.
- Developed a FastAPI service layer with documented API contracts, role-scoped inventory access, grouped bulk mutations, transfer and duplication workflows, import preview and commit flows, and snapshot-based recovery support.
- Built the React/TypeScript/Vite frontend for inventory selection, card search and add flows, inline item editing, and recent audit activity against a contract-driven HTTP boundary.

### COVID-19 Emergency Cooperative Agreement Proposal, APHL / CDC \$170M+, Fully Funded

- Orchestrated APHL's development and submission of a fully funded \$170M+ emergency COVID-19 cooperative agreement proposal to CDC in under two weeks, translating rapidly changing response priorities into an executable budget and workplan.
- Consolidated budgets, workplans, and federal application materials across approximately 18 projects and 5 program directors, producing a complete submission package under continual late-stage scope and funding changes.
- Served as primary liaison between APHL program leadership and CDC officials, aligning technical, programmatic, and administrative stakeholders while program staff were simultaneously engaged in active pandemic-response operations.
- Delivered a proposal that secured funding for expanded public health laboratory testing capacity, state access to testing materials and equipment, workforce and data fellowship growth, and informatics infrastructure including the AIMS platform.

## PROFESSIONAL EXPERIENCE

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Association of Public Health Laboratories (APHL)

Aug 2019 – Feb 2026

**Senior Specialist, Grants Management** Jan 2024 – Feb 2026  
**Specialist, Grants Management** Jan 2022 – Dec 2023  
**Associate Specialist, Grants Management** Jan 2020 – Dec 2021  
**Senior Tech, Infectious Disease (Temp to Hire)** Aug 2019 – Dec 2019

- Managed budget administration, monthly forecasting, and operational reporting for APHL's NU60OE000103, NU60OE000104, and NU47CD000001 grant portfolios, supporting an average annual funding stream of \$100M+ across approximately 50 funded projects.
- Built a structured Excel budgeting workflow to replace Word-based templates, reducing user error and shortening budget review cycles.
- Coordinated annual renewal application and budget development across 11 program directors, translating project-level plans into consolidated budget and application materials.
- Created SOPs, reference materials, and staff trainings that standardized grant procedures and reduced recurring support requests.
- Delivered group and one-on-one training on grant policies and procedures for program staff, helping non-technical users navigate complex federal requirements and internal systems.

**Office of Development and Alumni Relations, Grinnell College** Aug 2016 – Aug 2018  
**Assistant Director of Annual Giving for Phonathon**

- Raised approximately \$400K annually from 1,500+ donors through targeted outreach and team execution.
- Supervised 35 callers, including hiring, training, feedback, scheduling, and team operations.
- Managed and cleaned a 12,000+ record calling database and produced recurring reports using RuffaloCODY Campus Call Software.
- Used segment-level analysis to prioritize outreach and improve fundraising returns.
- Restructured incentive programs, contributing to a 50% increase in recurring gifts from FY17 to FY18.

**Mathematics Department, Grinnell College**

**Research Assistant** May – Aug 2015

- Applied graph theory techniques to analyze integer relationships and produce new results in Ramsey Theory.
- Won Outstanding Presentation at the *Joint Mathematics Meetings* Undergraduate Research Poster Session.

**Mathematics Grader** Jan 2014 – Dec 2015

- Evaluated proofs for combinatorics courses, reinforcing precision in logic, structure, and mathematical communication.

**Phonathon Program, Grinnell College** Sep 2013 – May 2016  
**Student Manager**

- Recruited and trained callers, provided performance feedback, and supported team operations.

## SERVICE & ACTIVITIES

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**CryptoParty, Code for America, Washington, D.C.** Sep – Nov 2018  
**Guest Lecturer**

- Presented accessible lectures on Diffie-Hellman key exchange and RSA encryption for non-technical audiences.

**Grinnell Singers** 2012–2016

- Sang bass in the college choir.

## EDUCATION, LEADERSHIP & HONORS

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**Grinnell College — Bachelor of Arts, Mathematics & Statistics** May 2016  
**Swan Memorial Scholarship at Grinnell College** Awarded in 2015  
**APHL Leadership Academy** Class of 2023  
**Outstanding Presentation — Joint Mathematics Meetings Undergraduate Research Poster Session**