Ian Tincknell

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Seeking Software Engineering or Data Engineering roles focused on backend systems, data infrastructure, and distributed services. Strong technical foundation with an eye toward real-world impact.

PROFESSIONAL EXPERIENCE

National Grid, New England Field Safety and Health

INTERN, DATA ANALYST ..... May–Aug 2025

- Designed and shipped an end-to-end Power BI reporting system with automated daily refresh, replacing manual Excel workflows and enabling consistent operational monitoring for leadership.
- Built a data ingestion and transformation pipeline using OData sources and Power Query, modeling longitudinal employee health events to support cohort-based trend analysis and drill-down views.
- Developed validated measures and privacy-aware reporting logic, then delivered a live executive demo and handoff documentation for long-term maintenance by full-time analysts.

University of Massachusetts Amherst, Institute for Applied Life Sciences

BUSINESS INNOVATION FELLOW 2022–2024

- Built repeatable analytics workflows for startup teams, translating ambiguous market questions into structured datasets, comparative scoring criteria, and decision-ready outputs.
- Led iterative research sprints for a machine-learning startup in water resource planning, producing a prioritized target list and CRM-ready segmentation to streamline business development.
- Led a team initiative to define and operationalize generative AI usage guidelines, presenting training to approximately 40 fellows and delivering an adopted handbook for future cohorts.

EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST — AMHERST, MA

Manning College of Information and Computer Sciences

Master of Science in Computer Science (MSCS) 2026

- Certificate: Statistical & Computational Data Science
- GPA: 3.97 • Full Graduate Assistantship

Isenberg School of Management

Master of Business Administration (MBA) 2024

- Business Innovation Fellowship, Institute for Applied Life Sciences
- GPA: 4.0 • Full Graduate Assistantship

College of Social and Behavioral Sciences

Bachelor of Arts in Political Science 2014

TECHNICAL SKILLS

Languages: Python, R, C, C++, SQL, MATLAB; familiarity with Rust and Java

ML & Statistical Modeling: PyTorch, TensorFlow, scikit-learn, RStan; CNNs, RNNs, Transformers

Data Engineering: Spark/PySpark, ETL pipelines, SQLAlchemy, PostgreSQL

Backend & Distributed Systems: REST APIs, Flask, gRPC, Protocol Buffers, Redis; Paxos, Raft

Cloud & Infrastructure: Docker, Amazon EC2; Kubernetes; virtual machines (VMware, Multipass)

BI & Analytics: Power BI, Power Query, DAX, Tableau, Excel; data modeling and analytics

Professional: Team leadership, stakeholder communication, cross-functional teams, mentoring

PROFESSIONAL EXPERIENCE (CONT.)

Commonwealth of Massachusetts, MassHealth

LONG-TERM CARE ELIGIBILITY SPECIALIST 2015–2022

- Managed a rolling caseload of 30 to 40 long-term care applications under strict deadlines, reviewing complex financial records to determine Medicaid eligibility and compliance.
- Coordinated with families, attorneys, hospitals, and nursing facilities to resolve documentation gaps quickly, supporting continuity of care in high-stakes, time-sensitive situations.
- Built Excel-based templates and calculators adopted by the team to improve case processing speed and accuracy for recurring compliance and valuation workflows.

LEADERSHIP & CAMPUS INVOLVEMENT

UMASS AMHERST GRADUATE STUDENT GOVERNMENT (GSG)

Vice President 2025–Present

- Led execution of 7 graduate community events (50–400 attendees), coordinating logistics, vendors, staffing, and risk-aware operations.

Treasurer 2024–2025

- Oversaw a $1M+ graduate student trust fund and annual budget process, ensuring accurate tracking and policy-compliant disbursement.
- Designed and operated an airport transportation program supporting 300+ arriving international students with real-time delay monitoring and contingency planning.

AWARDS

- **President's Outstanding Impact Award**, UMass GSG – 2025
- **Student Leader of the Month**, UMass Amherst – November 2024

PROJECTS

Album Cover Art Image Classifier (TensorFlow)

github.com/itincknell/Album-Cover-Art-Image-Classifier

- Built an end-to-end image classification pipeline to predict music genre and decade from album cover art, using TensorFlow/Keras transfer learning with a `tf.data` pipeline for scalable training.
- Curated a 160K+ labeled dataset by joining MusicBrainz metadata with downloaded cover art, then trained and evaluated CNN models with augmentation and fine-tuning steps.

MusicBrainz Query Server (PySpark)

github.com/itincknell/musicbrainz-query-server

- Developed a query-oriented service layer over a local MusicBrainz PostgreSQL mirror, generating and executing parameterized Spark SQL queries through PySpark for structured retrieval tasks.
- Built a gRPC API for long-running queries using asynchronous job IDs, status polling, and reliable result retrieval with concurrency-safe in-memory tracking and automatic TTL cleanup.