

# Anthony Balducci

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## Summary

Data and AI specialist with 10+ years experience across engineering, education, and consulting. Recent certifications in NLP, Deep Learning, and CUDA development. Passionate about solving real-world problems through data modeling and scalable AI solutions.

## Technical Skills

- Python
- R / RStudio
- SQL
- TensorFlow / Keras
- C / C++
- CUDA
- MATLAB
- Verilog/SystemVerilog
- Embedded Development
- KiCAD
- Autodesk Inventor
- Fusion (360)
- JavaScript
- HTML / CSS
- PHP
- Adobe CC

## Foreign Languages

- Mandarin Chinese

## Community Involvement

- Achilles International guide runner and trainer
- Volunteer in Falmouth Road Race wheelchair logistics & support pavilion
- Charles River Clean-up
- Charity marathon runner/fundraiser for World Vision, Chicago - 2012 (3:01)
- Dept. of Infection Control and Safety Volunteer – Health Alliance Hospital,
- Skills Building Volunteer – UN International AIDS Conference, Toronto

## Education

**Nvidia Deep Learning Institute** - Getting Started with Accelerated Computing in CUDA C/C++ Sept 2024

**DeepLearning.AI** - Natural Language Processing (NLP) Specialization Apr 2024 - Aug 2024

- (4 courses: NLP with Classification and Vector Spaces, NLP with Probabilistic Models, NLP with Sequence Models, NLP with Attention Models & Hugging Face)

**DeepLearning.AI** - Deep Learning Specialization w/ Python Jan 2024 - Jun 2024

- (5 courses: Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models/NLP/RNN/Transformers)

**Imperial College London** - Mathematics for Machine Learning - Linear Algebra, Multivariate Calculus, PCA(In progress)

**HarvardX** - Professional Certificate Program in Data Science Jun 2022 - Jan 2024

- (9 courses: R Basics, Visualization, Probability, Inference and Modeling, Productivity Tools, Wrangling, Linear Regression, Machine Learning, Capstone)

**Dartmouth College** - C Programming with Linux Professional Certificate Oct 2018 - Dec 2018

- C Programming with Linux Professional Certificate (7 courses)

**MITx** - 6.004.1-3x Computation Structures Aug 2015 - Nov 2015

- Digital systems design from transistors → gates → finite state machines → hardware instantiation of Von Neumann architectures → OS design → memory management → assembly compilers - foundation for FPGA development

**University of Toronto** Sept 2005 - Mar 2007

- M.A. East Asian Studies - GPA: 3.5
- Completed Interdisciplinary Program in APAC Studies at the Munk Center for International Studies.
- Served on Budget Committee, Faculty of Arts and Sciences – Sole grad student representative

**University of Massachusetts, Amherst** Sept 2000 - May 2004

- Graduated *cum laude* in four years with dual-degrees, a third major, and a minor.
- B.B.A. Finance + B.A. Philosophy - GPA: 3.71
- Third Major: Economics - Minor: Chinese (Language + Culture)

## Professional Experience

**Fulfillment Center Associate I** Amazon • Charlton, MA • Nov 2024 - Sep 2025

- Employ troubleshooting techniques to diagnose and resolve issues with stowing processes, enhancing operational efficiency by 15% through continuous improvement initiatives.
- Implement rigorous quality control measures, maintaining compliance with OKRs and achieving a monthly efficiency rate exceeding performance targets by 20%.
- Work closely with the logistics team to optimize inventory flow and storage solutions, reducing average processing time per item by 10% and supporting a high-velocity environment.

**Mentor** Imperial College London: Global Challenge Lab • Online - By invitation • Jul 2022 & Jul 2023

- Supported and advised students innovating in an international competition two years in a row on U.N. Development Goals 7 & 13 developing novel solutions for clean energy and preventing climate change.

**Freelance Industrial Print Consultant** Multiple Locations • Jan 2020 - Present

- Provided custom hardware and software configurations, solutions support, training, color profiling, and one-off product design and CAD/CAM/PCB design services to clients in the direct-to-fabric and industrial printing fields.

**Independent Print Consultant** Lewis Brisbois, LLP • Multiple Locations • Jun 2021 - Present

- Contracted to serve as expert witness for domestic and international litigation regarding a \$2 million purchase.

**Technology Services Support Specialist - CIP** Ricoh USA, Inc. • Los Angeles, CA • Jul 2018 - Sept 2019

- Provided high-speed print tech support for a major Fortune 500 company, as well as LADWP and Sempra Energy.
- Performed PC/MAC troubleshooting and network problem solving.

**Technical Consultant** Graphics One, LLC • Sun Valley, CA • Dec 2016 - Sep 2017

- Provided pre- and post-sales customer support, on-site installations, and training across North America.
- Collaborated with OEM product development teams on functionality, bug fixes, and hardware revisions.

**Engineering Lead Technician** Oyo Sportstays, Inc. • Marlborough, MA • Oct 2015 - Nov 2016

- Consistently supported senior engineering/management team with product development and design.
- Engineered increased machine performance by 50%, with the end result being on-time delivery of at least \$750,000 worth of orders, whose deadlines would otherwise have been missed in a fast-paced startup environment.
- Designed and constructed an automated parts sorting machine for a total cost of under \$500.

**Technology Development Manager** Agency Systems Group, LLC • Sterling, MA • Jan 2013 - Oct 2015

- Consulted and deployed custom hardware solutions for institutional clients such as Georgia State University and Savannah College of Art and Design, as well as numerous individual high-profile artists and designers.

**Senior Lecturer/Student Advisor** Northeastern University • Boston, MA • Sept 2010 - Jan 2013

- Served as academic advisor to 70-90 students for four semesters in the American Classroom Program.
- Developed course content and taught a broad course portfolio including topics in business, writing, and STEM.