

brian.hogan

Greater Boston



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<https://github.com/bbe2/portfolio>

Summary

I'm an instructional designer, technical curriculum developer, and university instructor delivering compelling learning experiences and creative content. Deep operations reengineering work and creation of programming courses informs design choices that effectively bridge constructs to learners.

- Proven skills in partnering with leaders to intuit goals and ensure program learning objectives.
- Apply theory and learning principles to multimedia to achieve desired learning focus.
- Need the complex explained? Rely on my keen grok skills to decipher, translate, and connect to content.
- Promote a positive and supportive learning environment among peers.
- Actively assist friends and their acquaintances with learner coaching and tutoring needs.

Technical Skills

- Cloud: performing Google certification for Machine Learning Engineer.
- Languages (proficient): Python, R, VBA.
- Languages (familiar): C++, HTML, Java, SMSS, SQL, Visual Studio, XML.
- Representational State Transfer (REST) APIs with Facebook, REDCap, Twitter.
- Libraries: caret, e1071, ggplot2, klar, pandas, sci-kit-learn, Tensorflow2.
- Multimedia: Photoshop, Illustrator, Help/Manual, LaTeX, and Markdown.
- Multimedia (familiar) – Shiny and Sphinx.
- NLP (proficient): strip/regex, detection, negation, and sentiment.

Experience



Technical Course Developer

ICARUS AI E-Learning

Nov 2022 - Jan 2023 (3 months)

course author: >_7.py.pillars

- Formulated an innovative Python learning module to address deficiencies in current training literature.
- Includes readings, mechanical questions, exercises, and capstone project.
- Designed to experience plasticity with data transformers and coding of iterators, conditions, and classes.



Content Writer, Learning Lab, Grow with Google Career Certificates (via Synergis)

Google

Mar 2022 - Nov 2022 (9 months)

Lead writer and programmer of a 6-module Python course in a 7-course, 2023 advanced certificate.

- Drafted multimedia assets across data objects, iterators, conditionals, transformations, and classes.
- Performed script editing, recommended revisions, and ensured nomenclature and constructs.
- Created two of five course capstones comprising cross course statistics and machine learning.
- Created knowledge readings (21), codebooks (10 @3k lines), course projects (4), and self-reviews (3).

- Trained on the design of 18 multimedia and E-learning assets such as vignettes and quizzes.



Adjunct Faculty

Southern New Hampshire University

Feb 2022 - Present (1 year 1 month)

Deliver system design pedagogical instruction to form theoretical, reengineering, and analysis mindsets.

- Connect with students and deliver curriculums with pace, agility, and activities they love.
- Perform reverse engineering of small-scale physical systems, like DataMan, to bridge learning of database designs, Python libraries, transaction generation, and analysis of functional engineering.
- Perform contracted instructional design for IT304 Systems Analysis and IT226 STEM Communication.
- My curriculum strategy includes AI Megalosaurus preparedness, such as in Google Cloud.

IT 226 STEM communication

IT 304 Systems analysis and design

IT 337 User-centered systems design and evaluation



Technical Writer and Illustrator II

Alert Innovation

Nov 2021 - Mar 2022 (5 months)

Performed teamwork with operation owners and engineers to write and update quality robotic and structure maintenance manuals (12), service procedures (11), and user manuals (2).

- Crafted materials are used regularly by robotic service technicians, structure maintenance personnel, and the onboarding and training of new equipment operators.
- Utilized Adobe Photoshop, Adobe Acrobat, Adobe Illustrator, Help and Manual, and Salesforce.
- Authored in XML and HTML and performed media meta tagging.



Research Volunteer

Winchester Hospital

Jul 2021 - Dec 2021 (6 months)

Investigated the potential of purposeful hourly rounding's association with patient fall reduction.

- Utilized evidence based practice and design data collection for daily rounding of patient 5- Ps.
- Tested ReDCAP REST APIs with active tokens to R for periodic downloads and analysis.
- Discovered a fall prevention factor for nurse management adoption.
- Proposed a feasible upgrade to the call bell system and located necessary parts.



Scientific Editor

Accdon, LLC (Publishing services)

Jul 2020 - Jun 2021 (1 year)

- * Passed exam and enhanced scientific language editing skills via supplied training.
- Edited data science manuscripts for peer-review journal publications.



Graduate Student

Syracuse University

Sep 2018 - Dec 2020 (2 years 4 months)

Focused on deepening language skills to expand instructional design and technical curriculum development with natural language processing sophistication. GPA 3.8/4.0

- Deep natural language processing with Dr. McCracken -lexical semantics, negation, and detection.

Before Syracuse, Brian performed instructional design and technical curriculum development.

- Lockheed Martin, customized simulation course for scheduling plant for F-35 Lightning engine overhaul.
- NASA designed a discrete-event curriculum for optimizing transfer to paper-to-image system.
- NASA developed a curriculum for simulating space asset resource requirements.
- West Point developed a curriculum for modeling war-based resources and logistics. https://github.com/bbe2/portfolio/tree/tech_write

Education



Harvard University

CSS, Business Administration, Harvard Extension School

Eight full-term, in-person courses.



The Johns Hopkins University

Certificate, Data Science

2016 - 2017



Syracuse University

Master of Science, Applied Data Science

2018 - 2020



Boston College

Master of Science, Matriculated (incomplete b/c work relocation), Sociology & Statistics



Babson College

Bachelor of Science, Business Management

Wellesley College departmental degree in psychology.

Licenses & Certifications



Natural language processing on Google Cloud (1Q23) performing ML engineer certification) - Google

coming soon!

Skills

Knowledge Management • E-learning Implementation • Technical Writing • Research • Evidence-Based Practice (EBP) • Curriculum Development • University Teaching • Needs Analysis • Scientific Computing • Google Cloud Platform (GCP)

Honors & Awards



>_7 Pillars of Python - ICARUS AI E-Learning

Nov 2022

- Formulated for any learner to create a data manipulation mindset and core programming skills.



Member - Golden Key International Honour Society

Oct 2020



Class IT.304 Hackathon Invite - Amazon Web Services (AWS)

Oct 2022

Class invited to a limited seat team competition.

The team didn't win, but I'm proud of their resolve.