GABRIEL TOBAN

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Data Science Leader

Accomplished, dedicated, innovative, and energetic **Data Science and Machine Learning Leader** with an entrepreneurial spirit and 10+ years of transferable experience in fast-paced technical and business environments. Seasoned in conducting high-level and complex research using various machine learning algorithms, API's, and tools. Proven track record of researching, adopting, and utilizing custom mathematical tools to drive data science initiatives. Hands-on leader and collaborator with excellent communication, organization, analytical, critical thinking, and problem-solving skills. *Areas of expertise include:*

Deep Learning	: Tensorflow, Keras, Sci-kit Learn, Weka, PyTorch
Languages	: Python, R, C++, C#, Java, C, Javascript, PHP
Platforms	: Anaconda, Matlab, SPSS, SAS, Visual Studio, Databricks, Hadoop
Database	: SQL Server, MySQL, Oracle SQL, PostgreSQL, EDF, XML, JSON
Cloud	: Amazon, Google, Azure
Signal Processing	: Wavelets, PyWavelets, EEGLab, Matlab DSP
Parallel Computing	: CUDA, MPI, GPU
Project Management:	Contract Negotiations, Project Planning, Resource Management, Project Roadmap, Team Leadership
Software Engineering:	Requirements Engineering, Unit Testing, Software Life Cycle, RESTful Services, SOAP Services
Other Skills	: Workflow Design, Top-Down Analysis, Abstraction, Modeling, Pedagogical Strategies

EDUCATION & CERTIFICATIONS

Degrees	Most Recent Certifications
Ph.D. in Computational Science Candidate	**Intermediate SQL (2019)**
Middle Tennessee State University (Aug 2020)	**Ensemble Methods in Python (2019)**
Master of Science in Computer Science	**Advanced Deep Learning with Keras in Python (2019)**
University of Illinois (Aug 2015)	**Deep Learning with Keras in Python (2019)**
Bachelor of Science in Mathematics	**Signal Processing Problems (2019)**
University of Tennessee (May 2011)	**Unsupervised Deep Learning in Python (2019)**

CAREER & EDUCATIONAL PROJECT SUCCESS

THE AI INSTITUTE, CAMBRIDGE, MA   OCTOBER 2019 – DECEMBER 2019
DATA SCIENTIST
- Practiced Data Science and AI within 480 hours intensive and practical bootcamp.

SLEEP RESEARCH CONSORTIUM, MURFREESBORO, TN   JANUARY 2018 – PRESENT
DIRECTOR, DATA & TECHNOLOGY
- Play a key role in designing, funding, and completing research projects using Machine Learning (SciKit-Learn, TensorFlow, Custom) and statistical analysis (SPSS, Custom) on secure Linux servers.
- Selected to aid in analyzing a nationally-recognized sleep research project focused on treatment (CPAP) efficacy.
- Authored a five-year research topic that was instrumental in establishing University-level sleep research partnerships.

COAST TO COAST INNOVATIVE SOLUTIONS, NASHVILLE, TN   JANUARY 2016 – PRESENT
CONSULTANT
- Oversee the daily operations and strategic priorities of the company, including managing all IT, data, finance, advertising, and software application initiatives.
- Created a SQL script that reduced processing time from six months to as little as three hours, thereby cutting client costs and maximizing overall company profitability.
- Recruited by physician practice clients to design and implement custom automation tools for use across their claims management, billing management, practice management, population health, and research activities.
- Provide hands-on training to clients and ongoing support, including data management and performance monitoring.

MIDDLE TENNESSEE STATE UNIVERSITY, MURFREESBORO, TN   JANUARY 2017 – JULY 2019

RESEARCH CONSULTANT (JANUARY 2017 – JULY 2019)
- Directly collaborate with local businesses to create research questions and source appropriate tools and methodologies that answer research-based questions.

GRADUATE TEACHING / RESEARCH ASSISTANT (SEPTEMBER 2016 – JULY 2019)
- Work on a dissertation, *Single Channel EEG Sleep Characterizations Basis for Disease Detection and Sleep Staging*, including utilizing TensorFlow, EEGLab, MATLAB Signal Processing, and other core technologies.
- Create and implement lesson plans for Ph.D.-level courses in C++ programming and analysis of algorithms, Python, HTML, and Microsoft Office.

ADDITIONAL EXPERIENCE

COAST TO COAST MEDICAL, NASHVILLE, TN   JANUARY 2008 – DECEMBER 2015

DIRECTOR OF INFORMATION TECHNOLOGY (AUGUST 2013 – DECEMBER 2015)
- Promoted to spearhead all aspects of the group's IT processes and operations, including managing numerous concurrent IT, data, website, and software projects and priorities.
- Designed automated data extractions over secured networks, including custom coding (ICD-9 to ICD-10) conversions.
- Co-developed an automation process for physician practice modeling, monitoring, and analysis, a solution that reduced costs to clients and increased company profitability.
- Utilized the coding (ICD-9 to ICD-10) conversion tool to reduce man-hours required for manual conversions, thereby further enhancing profitability of the company.

EPM / EHR CONSULTANT (NOVEMBER 2012 – JULY 2013)
- Served as the Team Lead for training and monitoring for MU, PQRS, CQM, ICD-10 conversion, and other implementations.
- Developed the process for ICD-9 to ICD-10 conversions and related clinical documentation improvement elements.
- Leveraged existing software functionality to create a workflow for allergy departments that was nationally recognized.
- Enabled a $10K+ cost savings in requirements incentives by manually extrapolating meaningful use data from the database to achieve even greater efficacy for clients.

HIM CONSULTANT (JANUARY 2008 – DECEMBER 2010)
- Collected a diverse array of EHR data and trained cross-functional staff on coding and claims submission.

Additional Career Experience:

Math Instructor, Mathnasium, Murfreesboro, TN (2016)
Systems Analyst, Take Care Health, Franklin, TN (2013)
EHR Implementation Specialist, Global Medical Partners, LLC (2012 – 2013)
EHR Implementation Specialist, Greenway Medical Technologies (2011 – 2012)