

CHRISTIAN CHIDOZIE ANYANWU

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EDUCATION

WASHINGTON UNIVERSITY IN ST. LOUIS, School of Engineering and Applied Science

Grad: May 2020

B.S. Computer Science and Cognitive Neuroscience (Minor: Linguistics)

CS Major GPA: 3.73

EXPERIENCE

IBM, Austin, Texas

June 2019 – August 2019

Extreme Blue Technical Intern (Data Science)

- Lead small technical team using Agile methodology to develop a Machine Learning product for IBM Cloud AI
- Architected, constructed, and tested a workflow intelligence product, utilizing machine learning, containerization, and data pipelines
 - Created a real time, Spark based, analytics pipeline that analyzes terabytes of semi-structured cloud logs
 - Implemented modern NLP (natural language processing) techniques to extract information from log data
 - Constructed Machine Learning (ML) algorithms to automatically detect anomalies and detect the overall health of the system
 - Designed an adaptable ML framework that retrains overtime to maintain accuracy on an evolving cloud system
 - Utilized containerization (via Docker) to create a flexible and scalable microservice platform
 - Visualized the product via an informative dashboard with configurable Slack/SMS alerts
- Conducted user research via user interviews to diagnose the source issue and understand the clients use case

MERCK & CO., Upper Gwynedd, Pennsylvania

June 2018 – August 2018

Oncology Data Analytics Intern

- Cleansed, analyzed, and reported on complex oncology EHR (electronic health record) data
 - Ran exploratory analysis on data sets containing ~1 million unique patients and doctors' medical records
 - Utilized NLP (natural language processing) procedures to extract relevant information from medical records
 - Created visualizations and analysis to summarize data results for presentation to key business stakeholders
- Created pipelines and processes to automate data ingestion and analysis for continuous data reporting
- Coordinated efforts to standardize data provided to Merck by multiple data vendors

WASHINGTON UNIVERSITY IN ST. LOUIS, St. Louis, Missouri

May 2019 – Present

Club Tennis President and Four-Year Member

- Leader of tennis club with over 120 members, \$30,000 in funding and a competitive team travelling to over 7 tournaments annually

Student Research Assistant for Neuroscience Laboratory

October 2018 – Present

- Created and ran Matlab scripts to analyze fMRI neuroimaging data for neuronal network analysis

Student Research Contractor for Neuroscience Laboratory

September 2017 – March 2018

- Designed and built a video game to study the effects of aging and Alzheimers cheaply and effectively

MERCK & CO., Branchburg, New Jersey

June 2017 – August 2017

Applied Technology Intern

- Developed a proprietary SVM (support vector machine) learning algorithm for classification of high dimensional website data
 - Increased the ability for a product to reach market by several weeks via highly accurate classification of websites
- Worked with multinational team to progress machine learning based server recovery system
- Recovered over 200 laptops for global virus outbreak recovery effort

TECHNICAL SKILLS

- Languages - (Proficient): Python, Java. (Familiar): R, C++, SQL, JavaScript, HTML, CSS
- Software – (Proficient): Docker, Linux, HDFS and Spark. (Familiar): Unity Development Software, Photoshop

PROJECTS

Computer Science Knowledge Graph – Academic Project (https://github.com/ChristianAnyanwu/Wiki_Comp_Sci_Analysis)

- Utilized web scraping, network analysis and clustering techniques to create a knowledge graph of the field of Computer Science
- Analyzed the Computer Science knowledge graph to produce informative and understandable visualizations

NeuroVec - Personal Project (<https://github.com/ChristianAnyanwu/NeuroVec>)

- Creating domain specific word embeddings for research and analysis of modern neuroscience papers
- Utilizing NLP (natural language processing) and web scraping to create, cleanse, and analyze large text corpuses
- Word embeddings used to research applications in categorization, summarization, and generation of neuroscience papers