CONNICE TRIMMINGHAM

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EDUCATION

M.Sc. in Computer Science | University of Arkansas at Little Rock, USA (**4.0/4.0**)   2021 - 2022

B.Sc. in Quantitative Economics and Econometrics | University of South Florida   2017- 2020

B.Sc. in Business Analytics and Information Science | University of South Florida   2017 - 2020

PROFESSIONAL CERTIFICATIONS

- *AWS Cloud Solutions Architect (2023): Proficient in S3, CloudFront, EC2, Lambda, Redshift, Aurora.*
- *AWS Developer Associate (2024): Skilled in AWS CloudFormation, Lambda, Amazon CLI, SDK.*
- *AWS Certified DevOps Engineer - Professional (Expected May 2024): Focusing on deployment strategies using AWS CodeDeploy and Lambda.*
- *NVIDIA-Certified Associate Generative AI Multimodal (Expected June 2024) Generative AI With Diffusion Models.*

WORK EXPERIENCE

- **Software Engineer L4, Bank of America**   2023 - present
  - ***Developed and launched distributed Android/iOS applications*** with MVVM architecture with a focus on high availability user experience using kotlin and Swift, guiding features from concept through to app store release, enhancing user engagement and customer satisfaction.
  - ***Designed and executed a comprehensive data migration system*** from Oracle Data Lake to MySQL using Java and Spring Boot, integrating caching and scheduled runs to enhance performance, coupled with a React-based metrics dashboard for real-time data monitoring.
  - ***Enhanced Code Reliability in Over 100+ banking Android Projects*** with automated testing in Espresso and JUnit and test coverage assessment using Jacoco - reduce 20 % of features bugs
  - ***Implemented robust CI/CD pipelines*** with Jenkins and GitLab, employed Test-Driven Development for higher code reliability, and maintained agile project management using JIRA for cross-functional collaboration and efficient code reviews.
  - ***Automated quarterly, and monthly*** performance reporting metrics by developing a platform with python.

- **Software Engineer , Bayer AG**   2023
  - ***Led cross-functional collaboration*** with geneticists and agronomists, aligning development to business goals for improved planting strategies and yield outcomes.
  - ***Engineered a cloud-based framework*** using AWS Python, and Docker to optimize seeding rates for plant breeding using supervised learning and predictive analytics, neo4j to model and store genetic relationships.
  - ***Enhanced genotype assessment using machine learning models PyTorch and Keras*** and AWS services to analyze and enhance genotype assessment, significantly increasing traits scoring efficiency and accuracy by 98%.
  - ***Developed and deployed an ML ensemble auto-scoring engine*** applying convolutional neural networks (CNNs) and recurrent neural networks (RNNs) to improve the accuracy of phenotype predictions and AWS cloud scaling services: ***ETL and AWS Lambda, s3.***

- **Software Engineer Lead, Cosmos Research Lab- US Air Force and Office of Naval Research, USA**   2021 - 2023
  - ***Led a high-profile, $20M Machine Learning project*s**:
    - ***Emotion Characterization in Multimedia***: Employed transfer learning and deep learning techniques using Keras and TensorFlow, Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs) , LSTM to assess the accuracy of emotional recognition within multimedia contexts.
    - ***Social Media Deviance Detection***: Developed methods using Google GPUs, GraphQL, Bots API, NLP, and network analysis to detect bots and deviant behavior on social platforms. Leveraged TensorFlow and Graph Neural Networks (GNNs) to enhance detection mechanisms, significantly reducing false positive rates and increasing detection speed by 75%.
    - ***Emotion-Toxicity Correlation in Audio and Video:*** Investigated the relationship between emotions and toxicity using GraphQL, PyTorch, and deep learning techniques such as Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs). emotional cues correlate with toxic speech, achieving a breakthrough in predictive accuracy of 89% in identifying toxic interactions.
  - ***Optimized data retrieval*** across MySQL and PostgreSQL RDBMS with 900+ million records, using REST APIs and Elasticsearch for enhanced performance.
  - ***Enhanced Twitter data handling in Android applications,*** using RESTful APIs for efficient tweet retrieval and synchronization, and designing multimedia storage architectures to optimize app performance.

- **Data Engineer, Garver - US Department of Transportation, Federal Aviation**   2020 - 2021
  - *Translated key business processes into technical solutions*, working closely with executive managers and finance teams to enhance operational efficiency.
  - *Automated and optimized financial billing processes* using SQL and GraphQl, reducing billing time from 200 hours to 10 minutes per biller, and improving monthly billing metrics by 700%.
  - *Implemented DAX queries and object-level security* for real-time financial reporting on over 15,000 projects, and built an event-driven architecture for real-time data processing, ensuring timely access to project insights for stakeholders.

- **Software Engineer, USF, Muma Business College, Information Science Department**   2018 – 2020
  - *Developed and maintained testable code in python* for student course selection system ensuring optimal system performance.

SKILLS

- **Programming**

  Languages: Python, Java, C#, JavaScript, ios, kotlin, bash,Neo4j

  Frameworks: React, Node.js, PySpark, Spring Boot, Linux, Flask, Android SDK, Firebase, Espresso, Git

  Concepts: OOP, MVC, MVVM, RESTful APIs, Continuous Integration/Deployment

- **Cloud Technologies**

  Platforms: AWS (S3, EC2, RDS, Lake Formation, RedShift), Google Cloud Platform, Azure

  Tools: Docker, Kubernetes, Airflow, CI/CD (Jenkins, Codedeploy), Git, JFrog Artifactory, terraform

- **Machine Learning:**

  Frameworks: TensorFlow, PyTorch, Keras, Scikit-Learn

  Techniques: Deep Learning (CNN, ANN, RNN, LSTM, GANs, Transformer Networks), NLP, Clustering,

  Tools: MATLAB, Pandas, NumPy, OpenCV

- **Database:** SQL and NoSQL: MongoDB, Elasticsearch, DynamoDB, GraphQL, Neo4j, Amazon Neptune, Redis, Apache Cassandra

PROJECTS

- *Mobile App Development:* Led a team of four in creating iOS and Android apps for graphical design and illustrations.
- *Location-BasedAwareness*: Integrated Google Maps Platform SDK, Android SDK to develop live location awareness features, notifying users of real-time events.
- *Developed a high-scale image and video IOS* *image tuning* app using semantic photo segmentation and object detection algorithms.
- *Multiplayer Game Development:* Developed a game app featuring multiplayer functionality using neoj4, network programming, and Google cloud SDK.
- *Emotion Clustering from Videos*: Applied Long Short-Term Memory (LSTM), Recurrent Neural Networks (RNN), and Convolutional Neural Networks (CNN) to cluster emotions, utilizing transfer learning and deep learning techniques.
- *API Development*: Developed RESTful endpoints with FastAPI for CRUD operations, managing data in PostgreSQL with ORM and Postman for API testing.

MENTORSHIP

- *Microsoft Teals Program -* Taught 10+ high school students introductory to computer science in python/java   2023-2024
- *Designed simulation software* for cybersecurity training, enhancing skills of 40 students in threat management.   2019-2020
- *Taught data structures and algorithms* to 50+ beginners, preparing them for competitive programming in   2018 -2020

  Google Code Jams and International Collegiate Programming Contests using Java and Python