Korede Bishi

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Employment History

Sep, 2022 – · · · ·

- **Teaching Assistant: School of Computing**, Franklin College of Art and Science, University of Georgia, USA
- **Research Assistant:** Modeling, Simulation & Analytics Lab (MSAL), School of Computing, University of Georgia *Advisor: Dr. John A. Miller*

Jan, 2017 – 2022

- **Distribution and Transport Manager.** Sevenup Bottling Company (Pepsi-co Nigeria)

Education

2022 – 2027

- **Ph.D., University of Georgia, United State**.

2007 – 2012

- **B.sc. Computer Science, University of Benin, Nigeria**.

Graduate Research Projects

AI-based Clinical Decision Support Systems:

- ***CSCI 8000, University of Georgia (2024)*** Authored a term paper analyzing workflow adaptation and adoption of AI systems in clinical care. Proposed a transparency-to-trust framework for clinician–AI collaboration and evaluated institutional readiness for AI integration in healthcare.

Underwater Acoustic Signal Classification:

- ***CSCI 8000, Special Topics in Deep Learning (University of Georgia, 2023)*** Co-authored a research manuscript developing CNN–LSTM hybrid models for vessel sound classification using the VTUAD dataset. Conducted waveform transformation and data balancing to achieve cross-class generalization across vessel categories.

Vision Models as Time-series Forecaster:

- ***Advanced Representation Learning, University of Georgia (2024)*** Co-authored a capstone paper exploring VAE-, MAE-, and DAE-based reconstruction pipelines for multivariate forecasting. Designed image-grid encodings with reconstruction-to-signal inference and evaluated model fidelity using LPIPS and PSNR metrics.

Graduate Research Projects (continued)

Interpretability of Protein Embeddings:

- ***Trustworthy Machine Learning, University of Georgia (2023)*** Co-authored a paper on embedding interpretability using ESM2 representations, t-SNE, and spectral clustering to uncover kinase subfamily structures. Integrated saliency mapping for motif-level insights and reported clustering consistency (ARI 0.2374, NMI 0.5505).

Course Work CapStone Projects

Advanced Personalized DNS Forwarder:

- ***CSCI 6050, Systems Design (Fall 2023)*** Built a privacy-focused DNS forwarder using Python, Flask, Docker, and AWS Elastic Beanstalk. Emphasized online safety, domain filtering, and countermeasures against ISP monetization; deployed scalable cloud microservices architecture.

Cloud-hosted Health Insurance Explorer:

- ***CSCI 6795, Cloud Computing (Spring 2023)*** Deployed a Windows Server 2016 instance on AWS EC2 hosting a mini *Health.gov-style* web app connected to MS SQL to query insurance plans. Focused on virtual machine provisioning and multi-cloud deployment (AWS, GCP, Azure); gained hands-on experience with Docker, Kubernetes, and serverless computing.

Agile Movie Booking Platform:

- ***CSCI 6050, Software Engineering*** Led a 4-person Scrum team developing a Django-based booking system with modular architecture and clear separation of UI, business logic, and data persistence.

Multi-threaded HTTP Downloader:

- ***CSCI 6050, Systems Design (Fall 2023)*** Built an HTTP/1.1-compliant downloader using Python to perform parallel downloads via multiple TCP+TLS connections. range-based reassembly was implemented to ensure data integrity and optimized throughput.

DoH-capable DNS Forwarder:

- ***CSCI 6050, Systems Design (Fall 2023)*** Developed a DNS-over-HTTPS (DoH) forwarder in Python with domain blocking, logging, and selective query forwarding. Implement configurable filtering and secure DNS resolution for user privacy.

Distributed String Array with Java RMI:

- ***CSCI 6050, Systems Design (Fall 2023)*** Implemented a distributed string array using Java RMI with concurrency control for synchronized read/write operations. Demonstrated safe distributed memory handling and remote object invocation.

Course Work CapStone Projects (continued)

HVAC Systems Analysis Project: ***CSCI 6795, Cloud Computing (Spring 2023)*** Used Google Cloud Platform and Hadoop MapReduce to analyze HVAC efficiency across multiple buildings. Identified the three most efficient systems and visualized temperature deviations using data analytics and cloud storage pipelines.

Cloud-based Auto-Grader System: ***CSCI 6795, Cloud Computing (Spring 2023)*** Designed a scalable auto-grader for programming courses using Docker and AWS Elastic Beanstalk. Containerized C++ assessment scripts, implemented secure configurations, and automated grading through cloud infrastructure.

Skills

Frameworks **Machine Learning:** PyTorch, scikit-learn, time-series modeling **Cloud & DevOps:** AWS (EC2, IAM, VPC), Docker, CI/CD, Windows Serve **Data Tools:** Pandas, NumPy, Matplotlib, seaborn **Simulation:** Scalation2.0, SUMO

Communication Strong reading, writing, and speaking competencies in English

Coding Java, Scala, Python

Misc. Academic research, teaching, training, and LaTeX typesetting and publishing

Miscellaneous Experience

Certification

2024 *Neural Networks and Deep Learning* — DeepLearning.AI (Coursera, Certificate)

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization — DeepLearning.AI (Coursera, Certificate)

2022 *AWS Certified Cloud Practitioner* — Amazon Web Services (AWS)

Certified in Logistics, Transportation and Distribution — Association for Supply Chain Management (ASCM) Credential ID: APICS2029139 (Issued Feb 2022)

References

Available on Request