

Christopher Dargan

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Portfolio – <https://darganportfolio.github.io/website/>

Hello, my name is Christopher Dargan. I am enrolled in the graduate program at Kennesaw State University for Computer Science with professional research and work experience in the field CS and software development.

Education

Master of Science in Computer Science, Kennesaw State University

GPA | 4.0 Start Date | August 2023 Expected Graduation | May 2025

Bachelor of Computer Science, Kennesaw State University

GPA | 3.74 Start Date | August 2020 Graduated | December 2023

Experience

Lead Research Software Developer, KSU Office of Undergraduate Research

October 2022 – July 2023

Project Title: "Language Model Enhanced Non-Invasive Brainwave Signals to Text Conversion"

- **Funded Research (≈ \$10,000), IRB Approved, and Competitive Selection Process.**
- **Publication with ACM Digital Library**
- Developed the main GUI to perform data collection, data analysis, and interact with third party APIs.
- Developed custom EEG preprocessing software to eliminate skewed data, artifacts, outliers, filtering, denoising, etc.
- Implemented various signal processing techniques and feature extraction methods, including:
 - Wavelet Analysis, Fourier Analysis, Principal Component Analysis, Power Spectrum Analysis, statistical feature extraction, etc.
- Developed machine learning algorithms for decoding collected EEG data, including but not limited to:
 - Support Vector Machines, Recurrent Neural Networks, Random Forest Classification, etc.

Graduate Teaching Assistant, Kennesaw State University Senior Project CS-4850

January 2024 – Present

- Managed communication and reports regarding projects between invested industry partners and the university.
- Assessed and delivered useful feedback for the development of projects involving technologies such as:
 - React, Angular, Firebase, SQL, GitHub, Python, etc.
- Delivered a variety of teaching and assessment activities, including tutorials and lectures.

Data Clerk, Liberty County Board of Education
November 2019 – May 2020

- Filed financial records, data, and invoices for purchased goods and services into the company's database system.
- Created usable maintenance and operation documents, forms, and reports.
- Edited digital building blueprints and master plans for visual ideas and scale for future projects.

Associate, The Home Depot
September 2022 – Present

- Collaborated with coworkers to achieve goals, complete tasks efficiently, and maintain a positive work environment.
- Demonstrated strong interpersonal skills to provide friendly, knowledgeable, and efficient service to customers.

Professional Achievements

Research Publication – ACM Digital Library
Paper Title - ["Automated Alphabet Detection from Brain Waves"](#)

Presenter at 2023 National Conference of Undergraduate Research
Sponsored trip to University of Wisconsin to present my research at NCUR 2023.

Presenter at 2024 ACMSE Conference
Presented my research ["Automated Alphabet Detection from Brain Waves"](#) at the 2024 ACM Southeast.

KSU 2024 Calendar
Featured in KSU's calendar promoting my research across Georgia schools to encourage future scholars.

Skills

Programming Languages	Specialized Skills	Tools and Technologies	Soft Skills
<ul style="list-style-type: none">▪ Java▪ Python▪ C++▪ MATLAB▪ HTML▪ CSS▪ JavaScript	<ul style="list-style-type: none">▪ Machine Learning▪ Deep Learning▪ Natural Language Processing▪ Machine Vision▪ Research Experience▪ Software Development	<ul style="list-style-type: none">▪ IntelliJ IDEA▪ GitHub▪ Visal Studio Code▪ Jupyter Notebook▪ Unreal Engine 4▪ TensorFlow▪ Scikit-Learn▪ SQL▪ JavaFX	<ul style="list-style-type: none">▪ Critical Thinking▪ Team Collaboration▪ Interpersonal Skills▪ Communication▪ Problem Solving▪ Adaptability▪ Leadership▪ Creativity