

Brandon Burkett

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EDUCATION

Bucknell University

Bachelor of Science in Computer Science & Engineering

Lewisburg, PA

Aug. 2019 – May 2023

EXPERIENCE

Teaching Assistant

Sept 2020 – Present

Bucknell University

Lewisburg, PA

- Data Structures & Algorithms, Software Engineering & Design, and Operating Systems Design
- Facilitate weekly office hours, provide consultations in class for additional assistance, and grade lab assignments
- Mentored over 240 students across five semesters and graded over 300 lab assignments

Undergraduate Research Assistant

June 2022 – Aug 2022

Bucknell University

Lewisburg, PA

- Filtered and analyzed over 1.4 million data points using Pandas to find trends in smartphone GPS data
- Generated graphical output of data using Matplotlib and presented findings at research symposium

Student Athlete Tutor

Sept 2021 – May 2022

Bucknell University

Lewisburg, PA

- Provided 1-on-1 tutoring for two student-athletes, designed personalized sessions, and extended academic support
- Empowered students to think critically, become independent learners, and develop academic confidence

PROJECTS

DexMenuApp | *MacOS Menu Bar App*

Python

- Created an app that retrieves and displays Dexcom blood glucose data in the macOS menu bar
- Designed to allow users to access blood glucose data directly on their computer for convenience and discretion
- Incorporated the Dexcom API to retrieve blood glucose data and display response in macOS menu bar

Deep Learning Trainer | *JavaFX Deep Learning Trainer*

Java, JavaFX, Gradle, Deeplearning4j

- Developed a GUI to easily adjust hyperparameters and visualize variations in output between learning models
- Spearheaded team-based project using Scrum—managed team responsibilities and client communications
- Implemented using the Deeplearning4J library to train models and display learning rate and accuracy

SpotifyAutoPause | *Google Chrome Extension*

HTML, CSS, Javascript

- Published an extension to automatically control Spotify playback based on whether a browser tab is audible
- Designed user interface in Figma with a focus on accessibility and Spotify brand compliance
- Utilized Chrome API to retrieve tab audio state, OAuth for authentication, and Spotify API to control playback

Vaccine Bot | *Discord Bot*

Python

- Developed a Discord bot to alert users when local vaccination appointments became available
- Created during the pandemic to automate the process of checking vaccine appointment availability
- Accomplished using web scraping to get appointment data, and discord.py to alert users

Personal Website | *Project Portfolio*

Nuxt.js, Vue.js, AWS Amplify, HTML, CSS, Javascript

- Created a personal portfolio website to showcase projects and serve as a personal landing page
- Designed user interface in Figma with a focus on responsive design and accessibility
- Implemented using Nuxt.js and deployed using static site generation on AWS Amplify

TECHNICAL SKILLS

Languages: Java, Python, C, HTML, CSS, JavaScript

Frameworks: Vue.js, Node.js

Developer Tools: AWS, Git, Gradle, VS Code, IntelliJ