Griffin Burke

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Education

University of Illinois Urbana-Champaign Expected: May 2027
Bachelor of Science in Computer Science, Minor in Mathematics *GPA: 4.00*

Relevant Coursework: Data Structures and Algorithms • Software Design Lab • Computer Architecture
During Spring 2025: Prob and Stats for Computer Science • Data Science Discovery • System Programming

Honors: Grainger Engineering James Scholar • National Merit Scholar Finalist

Technical Skills

Languages: C++, Python, TypeScript, HTML/CSS/JS, Java, Kotlin, Rust
Libraries: NumPy, pandas, Matplotlib, Keras, Scikit-learn, Ultralytics
Frameworks: React, Express, React Native, React Redux Toolkit, Flask

Professional Experience

Machine Learning Engineer Intern September 2024 – Present
Kashmir World Foundation

- Jointly developing a YoloV8 computer vision model to assist researchers in Costa Rica in identifying animal species on trail cams, allowing for more efficient recognition and classification of key species
- Contributing to the exploratory data analysis and literature review of bioacoustic analysis for bird species

Involvement

Project: Code February 2024 – Present
Project Manager *September 2024 – Present*

- Leading a project called CompanyMatch, a website that utilizes HuggingFace sentence transformers to recommend companies to users based off of their preferred company values and culture

Developer *February 2024 – May 2024*

- Collaborated with a group of twelve over two different teams to build the UIUC Involvement Bot
- Key contributor to the building of the website and development of two neural networks for sentiment analysis
- Managed deadlines, covered for other members, and worked around each other's schedules

Projects

Virtual Closet | *React Native, Redux, TypeScript* July 2024 – Current
Mobile App Development *github.com/gjburke/closet-app*

- Building a virtual closet app using React Native in which users are able to scan their clothes into the app, build outfits with their clothes, and save their favorite outfits
- Implementing the React Redux Toolkit for state management of a user's clothing and outfits, along with using the React Navigation library to provide the user with well-structured navigation

UIUC Involvement Bot | *Python, Flask, Keras, HTML/CSS/JS, SQLite* February 2024 – June 2024
Text Analysis and Full Stack Web Development *github.com/gjburke/finishing-involvement-bot*

- Utilized a full stack of languages and tools to develop a club recommendation website for University of Illinois students based on what the user is interested in
- Developed, trained, and tested two Keras neural network models to take a user's description of their interest, determine its category and intensity level, and display corresponding clubs

College Spam Detector | *Python, Scikit-learn, Gmail API* May 2020 – August 2022
Content Classification and API Integration *github.com/gjburke/college-email-detector*

- Implemented the Gmail API and an SVM (Support Vector Machine) through Scikit-learn in an application that reads through user's emails and labels them if they are college spam emails
- Engineered the process of tokenizing, stemming, and vectorizing emails using NLTK in order to process emails from the Gmail API, including more than 500 hand-picked training emails
- Achieved greater than 95% accuracy for the SVM on the validation dataset