

# Guthrie McAfee Armstrong

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github.com/gmarmstrong

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## EDUCATION

UNIVERSITY OF GEORGIA  
Bachelor of Science in Computer Science

Athens, GA  
Expected December 2021

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## SKILLS

Languages: Python, Java, and Bash  
Tools and systems: Git, Linux, PostgreSQL, and Google Cloud Platform

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## PERSONAL PROJECTS

Python library for encapsulating web APIs postget  
Datamuse API wrapper for Python python-datamuse

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## PUBLICATIONS AND PRESENTATIONS

- G. Armstrong, “ $\ell$ -diversity of felony charges in  $k$ -anonymous jail data,” presented at the Summer 2020 CURO Symp., Athens, GA, USA, Aug. 3–4, 2020.
- A. Woods, S. G. Mayson, L. Sudeall, G. Armstrong, and A. Potts, “Boots and bail on the ground: assessing the implementation of misdemeanor bail reforms in Georgia,” *Georg. Law Rev.*, vol. 54, no. 4, pp. 1235–1296, 2020, [Online]. Available: <https://www.georgialawreview.org/article/13665>.
- G. Armstrong and A. Potts, “Georgia jail data: significance and inaccessibility of government records,” presented at the Hist. Profiles Amer. Incarceration, Athens, GA, USA, Oct. 3–4, 2019.

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## EXPERIENCES

RURAL JAILS RESEARCH HUB University of Georgia  
CURO Summer Fellow Summer 2020 to present

- Developed and deployed web scrapers for 43 county jail websites
- Building data infrastructure on Google Cloud Platform

WILLSON CENTER DIGITAL HUMANITIES LAB University of Georgia  
Undergraduate research assistant Spring 2020

- Translated humanities research questions to structured queries
- Researched Georgia history with IPUMS microdata and US census records
- Used NLTK and spaCy for natural language processing in Python
- Designed normalized database schemas using PostgreSQL

AMERICAN CIVIL LIBERTIES UNION Remote  
Project collaborator August 2019 to April 2020

- Scraped and analyzed data from Georgia jail and court websites
- Assisted a large-scale study of the cash bail system in Georgia
- Coauthored article published in the Georgia Law Review

UGAHACKS Athens, GA  
Hackathon participant February 2018/2019

- Vim plugin for interfacing with NLTK and the Datamuse API (`vim-muse`, 2018)
- Flask web app for a visual pun generator using NLTK (`rebus`, 2019)

ATHENS-CLARKE COUNTY DIVERSION CENTER Athens, GA  
Volunteer programmer February to April 2018

- Worked with team to improve information system for local rehabilitation and work release program
- Designed database with PostgreSQL and Java Database Connectivity (JDBC) interface