

Guthrie McAfee Armstrong

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EDUCATION

University of Georgia Athens, GA
Bachelor of Science in Computer Science May 2022
– Upper-level electives: Data Security and Privacy, Combinatorics, Database Management, Statistical Methods, Computer Networks, Cloud Computing, Web Programming

PUBLICATIONS

- “Boots and Bail on the Ground: Assessing the Implementation of Misdemeanor Bail Reforms in Georgia.” *Georgia Law Review*, vol. 54, no. 4, 2020 (with A. Woods, S. G. Mayson, L. Sudeall, and A. Potts).

PRESENTATIONS

- “ ℓ -Diversity of Felony Charges in k -Anonymous Jail Data.” UGA CURO Symposium, August 2020 (advised by S. Shannon).
- “Georgia Jail Data: Significance and Inaccessibility of Government Records.” Historical Profiles of American Incarceration, October 2019 (with A. Potts).

EXPERIENCE

UGA Rural Jails Research Hub Remote
Project member April 2020 to May 2021
– Developed web scrapers for 43 county jail websites *Git, Python, Selenium*
– Built automated, cloud data pipeline *Google Cloud Platform, Docker*
– Used object-relational mapping to standardize datasets . . . *PostgreSQL, Hibernate, Java*
– Simplified large data cleaning tasks *Dataprep, VBA, VimL, regex*
– Extracted and cleaned non-tabular records from PDFs *R, OpenPDF, Poppler*

Willson Center Digital Humanities Lab University of Georgia
Undergraduate research assistant Spring 2020
– Matched IPUMS microdata to unnamed US censuses of enslaved people . . . *R, Python*
– Extracted historical Italian prison records from scanned PDFs *Tesseract, spaCy*

Athens-Clarke County Diversion Center Athens, GA
Volunteer Spring 2018
– Advised rehabilitation and work release program on improving information systems

PROJECTS

- Ephemeral development server provisioning using *Terraform* and *Packer* remote-dev
- Python library for the Datamuse API python-datamuse
- *UGAHacks 2019*: Pictographic pun generator in a *Flask* app rebus
- *UGAHacks 2018*: Writing assistant for poetry and prose in a *Vim* plugin vim-muse