ANGUS WATTERS

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Portfolio: https://anguswatters.wixsite.com/personalportfolio
GitHub: https://github.com/anguswg-ucsb

EDUCATION

University of California, Santa Barbara   **(2019 – 2021)**
- *Bachelor's in Geographic Information Systems* │ GPA: 3.62/4.0

RELEVANT EXPERIENCE

Software Engineer, Lynker Technologies, remote   **(2021 - present)**
- Created and maintained CI/CD pipelines and batch data processing workflows using Terraform (AWS), Python, and GitHub Actions for seamless integration
- Implemented Docker across projects to streamline application deployment and portability
- Developed and maintained backend REST API endpoints used by frontend services and customer services, using IaC tools and Python with AWS services (RDS/DynamoDB/EC2/Lambda/API Gateway)
- Generated graph traversal algorithms for uniquely identifying cycles across thousands of undirected graphs, covering millions of line string geometries across CONUS.
- Delivered predictive streamflow forecasting machine learning model, using an XGBoost model
- Designed data visualizations and dashboards in Python/Javascript/R and handled deployment to AWS using Terraform and GitHub Action
- Fostered collaboration by managing GitHub repositories, conducting code reviews, refactoring, and debugging.
- Author and maintainer of Open Source Python and R packages

PROJECTS

climatePy, Python package for getting point and gridded climate data for a location   **Author and maintainer**
- Author and maintainer of a Python package that provides an easy to use API for discovering and accessing over 3000 unique geospatial datasets offered within a continually updated and maintained data catalog
- Responsible for maintenance, unit testing, implementation of new features, GitHub issue handling, and continual package development

ingredient_slicer, Python recipe ingredient parsing package   **Author and maintainer**
- Author and maintainer of the **ingredient_slicer** Python package, which uses regular expression and an OO design to streamline the parsing of raw recipe ingredient strings, allowing for a lightweight method for extracting ingredient quantities, units, and food items.

cdsspy/cdssr, Python/R REST API client packages   **Author and maintainer**
- Developed **cdsspy/cdssr** API client packages in Python and R, enabling easy identification and retrieval of resources from CDSS REST API endpoints

SKILLS

- Python
- Javascript
- R
- SQL
- Linux
- AWS
- Docker
- Terraform
- Bash
- NoSQL
- Pandas
- CI/CD
- Git
- GitHub Actions

CERTIFICATIONS

- **AWS Certified Solutions Architect - Associate,** Verification ID: F7M2CJ8CTNEQ1MKE

REFERENCES

Mike Johnson, PhD - Lead Data Scientist, Lynker Technologies │ jjohnson@lynker.com │ (719) 304 - 4951
Adam Wlostowski, PhD - Senior Data Scientist, Boston Consulting Group (BCG) │ wlostowski.adam@bcg.com │ (484) 515 - 4390
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