Meg Anderson

GRADUATE FROM WILLIAM & MARY, SEEKING FULL-TIME SOFTWARE DEVELOPMENT POSITIONS

 megretson | megretson

Education

The College of William & Mary *Williamsburg, VA*
B.S. IN COMPUTER SCIENCE *Aug. 2016 - May 2020*
- **Selected Courses:** Data Structures, Algorithms, Software Engineering, Deep Learning Code Generators, Operating Systems, Computer Architecture, Software Development
- **GPA:** 3.87 / 4.00, Dean's List, Summa Cum Laude, Phi Beta Kappa
- **Minor:** Biology

Skills

Programming	In descending fluency: Python, Java, C, C++, R, SQL, Powershell Scripting, Bash Scripting
Operating Systems	Mac OSX, Linux (Ubuntu & Open Suse), Windows 10
Databases	MongoDB, MySQL, Redis
Other	Agile & Extreme Dev, Version control: Git & Subversion, Unit testing: JUnit & Pytest

Experience

GE Healthcare *Milwaukee, WI*
EDISON ENGINEER *Jan 2020 - present*
- The Edison Engineering Development program is a two year rotational program consisting of four rotations. Teams include:
    - CT Scanner Desktop Application Team: refactored Java image generation service to use newest DICOM standards, allowing for efficient storage and transmission of 4-5x larger image sizes on future product lines
    - CT Firmware Team: designed and implemented REST API to replace proprietary communication protocols on future product lines. Improved service readability and maintainability without sacrificing performance during communication to real-time systems.

Airin Tech *Chantilly, VA*
SOFTWARE DEVELOPMENT INTERN *May 2019 - Dec. 2020*
- Built a website to select, edit, and delete database entries. Tool was database agnostic. Project was built for reuse in several client-specific applications. This involved:
    - Writing tools to automatically characterize the schema of data in both relational and document-oriented data sources
    - Interface design to support the addition of new data sources to support client needs.
    - Building a RESTful API with Flask to serve data queries to JavaScript SlickGrid front-end
    - Building robust test-suite using Pytest, maintaining documentation using Confluence, and issue-tracking with Jira

William & Mary IT *Williamsburg, VA*
DATA MANAGEMENT INTERN *Aug. 2018 – May 2019*
- Used open-source Luigi job scheduler to create data pipelines for batch-transformations of student data
- Refactored Rabbit MQ message queue pipeline tools, writing the first internal documentation on message queue usage

William & Mary ACM *Williamsburg, VA*
CHAIR *Apr. 2016 – Present*
- Lead organization as Chair, responsible for setting the direction of William & Mary's largest computer science organization and coordinating with the Computer Science department
- Planned tribeHacks IV and Cypher V, William & Mary's annual hackathon attended by over 200 hackers, managing a budget of over $20,000
- Planned technical curriculum for students of all skill levels, including build your first website and Intro to Unity

Derdack GmBH *Potsdam, Germany*
SOFTWARE DEVELOPMENT INTERN *May 2018 – Jun. 2018*
- Selected for internship in Potsdam, Germany to work with software development team on incident notification application, *Signl 4*
- Designed and trained machine learning algorithms for event anomaly detection and classification using TensorFlow models

Projects

Structuring & Evaluating a Deep Learning Library for Code Generation *Williamsburg, VA*
SEMERU RESEARCH GROUP AT WILLIAM & MARY *Aug. 2019 – Present*
- Project explores the use of a natural language generating model(GPT-2) to create machine generated code
- Created one of the first publicly available training sets of source code using MongoDB, codifying traceability of files while allowing flexibility for the addition of new features to the training set. Database contains over 25 GB of source code
- Designed and implemented a multi-threaded web-scrapper using the GitHub API, capable of downloading code from public GitHub repositories for placement into source code database