Elizabeth Pantalone *Full Stack Software Developer*

EXPERIENCE

Pittsburgh Supercomputing Center, Carnegie Mellon University — *Full Stack Web Platform Developer*
August 2020 – Current

- Creating interface and tooling for cleaning out storage of expired research grants, taking it from a 3-5 person procedure to a single person operation (Python/Flask)

- Revamped Resource Description Repository on XSEDE.org, streamlining the data ingestion process for universities and organizations adding their supercomputing resources to the XSEDE directory (Ruby/Rails)

- Increased validation of data ingestion for the Brain Image Library, both metadata and image data use cases, creating a user onboarding flow, which alleviated a large amount of manual validation and general slowness in the ingestion to publication process (Python/Django)

Academy PGH, North Side — *Student*
March 2020 – May 2020

- Full-time, 12 week bootcamp
- Curriculum: C#, Ruby, Rails, Test Driven Development, HTML/CSS, JavaScript, React, ASP.NET Core MVC

Niche, Pittsburgh — *Senior QA Analyst*
September 2017 - March 2020

- Developed many automated testing suites in Nightwatch and Postman for various features on Niche.com, a website serving 8 million monthly visits
- Executed full regression testing for website across major releases of React and Node
- Trained Junior QA and Frontend Engineers in onboarding and Git/Version Control and coding best practices

PROJECTS
Project Garbage Can — *Python/Flask/JavaScript*
Creating an interface for large data storage cleanup

- Saw a multi-person task that could be more efficient, creating a single-person operation
- Designed a clean, sortable, and simple interface written in Flask and JavaScript to fetch expired grants and their respective storage amounts, writing user selections to a tracking table within Postgres, and then automating the execution after notifying the Operations Team and a buffer of time

Brain Image Library (XSEDE) — *Python/Django/JavaScript*
Redesigning data ingestion pipeline of metadata and high-res brain scans

- Corrected and improved upon existing validation surrounding metadata and image ingestion
- Improved development process to include a Github development branch -- no more merging to master! and process for code reviews

Resource Description Repository — *Ruby/Rails*

- Restructure of the backend and front end of RDR
- Stripping away many features requested but never used
- Simplified the user experience to make data ingestion more reliable
- Simplified DB structure to make data management more sustainable and focused

Niche Mobile App — *React Native, Golang, Appium*
- Greenfield project using Agile methodologies to create React Native app and creation of API gateway
- Served as scrum master
- Designated accessibilityIDs within ReactNative codebase
- Created Appium testing framework for e2e testing, eventually running headless as implemented within our CICD process

Niche Mail/Kafka Infrastructure — *Golang, Kafka Manager*
- Establishing 3 kafka clusters as a messaging system for new mail service, integrating Mailchimp to the new mail service with webhooks
- Testing kafka infrastructure through cluster, topic, data manipulation and new service endpoints via Postman
- Testing on both Mailchimp's UI and Niche databases verifying connectivity
- Followed later to add email verification via JWT adding to email list reputation

PROGRAMMING EXPERIENCE
Python, Flask, Django, Postman, Appium, Nighwatch, C#, SQLite, MSSQL, React, Node/NPM, WebDriver.io, Selenium, Ruby, Rails, React, JavaScript, HTML/CSS, TDD, ASP.NET Core MVC, NodeJS, Git, Version Control, Very Command Line Proficient

EDUCATION
Chatham University, *Bachelor's in Economics & Biology*
August 2009 -May 2013

EXTRA COURSEWORK
Harvard EdX, *CS50 Intro to Computer Science*
September 2019 - December 2019

Same Intro to CS program taught on Harvard campus. Begins in C, through Python, and to JavaScript and web development

Carnegie Mellon University, *Public Policy & Management*
August 2012 -May 2013

Completed first year of two year program; coursework

included Database Management and Statistics

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