AIDAN SAWYER

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OBJECTIVE:

I'm looking for meaningful work involved with the organization, preservation, and expansion of knowledge, with particular regard to library resources and scientific research. By improving the engines which power human understanding, I seek to expedite human progress long-term.

EDUCATION:

Expected Graduation:
August 2018

Rochester Institute of Technology (RIT): *Bachelors of Science Software Engineering*

- Commendations: Presidential Scholarship
- Application Domain: Library and Information Science
- Minor: Philosophy

WORK EXPERIENCE:

Wallace (RIT) Library Digital Initiatives and Metadata Services   Since Feb 2016
Teresa Kellett - Library Systems Support Analyst - tmkwml@rit.edu
- Catalog volumes from a physical archive and upload scans to the DSpace digital media library
- Develop, document, and maintain automated solutions for various projects where appropriate
- Assist with the creation of a protocol for open-sourcing software projects created within the library

EagleDream Technologies *Software Development Intern*   Jun - Dec 2015
Scott Telle - Senior Software Developer EDT - Scott.Telle@EagleDream.com
- Design and development of a C#/.Net application meant to integrate/sync VoIP users with Microsoft's Active Directory via web clients and native libraries. Particularly responsible for the design and implementation of the Filter, Search, and Match subsystems.
- Development and maintenance on a legacy application for managing, storing, and displaying EMR data. Responsible for designing and developing the systems used for constructing CCDA, QRDA, and CQM reports using Java and iReport.
- AWS Web Services Transition: responsible for planning, documenting, and beginning a migration from local hosting over a dozen wordpress sites onto the cloud.

JBioFramework *Research Assistant/Lead Developer*   2012 to 2015
Dr. Paul Craig - Chemistry Department head at RIT - pac8612@rit.edu
- Development, maintenance, and refactor of a series of proteomics simulations for the education of AP high school and beginning undergraduate Biochemistry/Biotechnology students.
- Assistance creating questionnaires, walkthroughs, and help information to test user experience and comprehension of the software, as well as conducting those tests and interpreting their findings.
- Written in Java programming language, available on SourceForge, GitHub, and hosted online at *www.rit.edu/cos/JBioFramework* with over 1400 downloads.

University of Maine Presque Isle (UMPI) *Research Assistant/Lab Aid*   May - Sep 2011
Dr. Jason Johnston - Professor at UMPI - jason.johnston@maine.edu
- Conducted a literature search and review to assist in the design and description of research methods and data analysis.
- Perform various lab procedures to extract DNA and analyze hormone levels from samples of bird blood.
- Coordinate the physical and digital storage of collected articles and their metadata.
- Assist with the organization and analysis of scientific data and their visualization using Microsoft Access and Excel

LANGUAGES AND TECHNOLOGIES:

- Java : 4 years – EMR software with EDT, proteomics research, personal projects. Swing, Spring, Hibernate, OO Design
- Web : experience creating and maintaining sites in html, js, php, json, and bootstrap.
- C : callable tools, command line applications, coursework
- C# : Visual Basic, WPF, MVVM architecture, Active Directory and VoIP user integration
- SQL : basic database queries and maintenance, introductory theory, normalization
- Python/Ruby : algorithms, prototypes, web frameworks (django, rails)
- AWS : high-level knowledge of infrastructure, console management, and tools.

PERSONAL PROJECTS:

- dublin-core-text-parser - java - and input schema for encoding dublin core metadata in readable text files and translating it into MARC, JSON, and CSV formats. Code available on GitHub at: github.com/rit-wml/dublin-core-text-parser
- lib-name-parser - java - library still in development meant to assist with and automate basic authority control and limit errors by parsing names into their component parts and looking for similarities and spelling mistakes. Plan for it to correct or create authority record on request.
- Personal Site – html, js, css, Bootstrap – ongoing site containing more information about me and my work. *Code* available on GitHub at: github.com/atla5/atla5.github.io. *Site* hosted and accessible at: atla5.github.io/.