AIDAN SAWYER (RIT)

email: aks5238@rit.edu | phone: 585-397-5491 | sourceforge: aks5238 | github: atla5

OBJECTIVE

I'm looking for meaningful work involved with the propagation, organization, and expansion of knowledge and value, with particular regard to scientific research and philosophical inquiry.

EXPERIENCE

JBioFramework *Lead Developer/Research Assistant*   2012 to present
Dr. Paul Craig of Rochester Institute of Technology

- Continued development, expansion, and maintenance of a series of proteomics simulations for the education of AP high school and first-year undergraduate Biochemistry/Biotechnology students.

- Written in Java programming language, available on SourceForge, and hosted by RIT [www.rit.edu/cos/JBioFramework].

EDUCATION

Bachelor of Science   Expected Aug 2018
Rochester Institute of Technology

- Software Engineering [Bioinformatics Application] and Philosophy [History of Philosophy]

- Commendations: Presidential Scholarship

SKILLS & ABILITIES

Computing Languages

- Java   : 2.5 years – active research, personal projects
- Python : 2 years   – small coding challenges and web work
- Bash   : 2 years   – scripting, automation, tests, maintenance, directory management
- C   : 1.5 years – RPI, memory management, interaction with Bash and Assembly
- HTML   : 1 year   – introductory experience with creating and maintaining sites
- SQL   : 0.5 years – basic database queries and maintenance
- Alloy   : 0.5 years – logic puzzles, software modeling
- jSpin   : 0.5 years – concurrency and testing
- Ruby   : 0.5 years – introductory experience with language basics and Rails.

Skills and Focus

- Refactoring: organized a default-packaged 68-class project into 56 classes in five packages while adding functionality.

- Quality Assurance/Documentation: understand importance of documentation and coding style.

Scientific Research

- Worked as a Lab/Research Assistant for a professor at a local Community College in High School

- Processed over 70 samples of DNA Extraction as well as multiple runs of Corticosterone and Glucose assays independently

PERSONAL PROJECTS

- JColorChanger – Java – simple RGB color selector composed of Swing components (Alpha)

- JTileEditor   – Java – early experiment in Observer pattern and larger systems (in development)

- Watchables   – C, Bash, Django – personal design challenge in technology selection, database creation, cross-language communication, scalability, video, and web/server technologies. (Early design) *formally 'FlickerTV'