HOLLY ZURENDA

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EDUCATION

Rowan University
B.S. Computer Science

B.A. Mathematics
Concentration: Statistics

Dec. 2021
Double major
Accum. GPA: 3.75

TECHNICAL EXPERIENCE

Rowan University   Jan. 2021 - Present
Bristol-Meyers Squibb-Rowan (BMS) Collaboration Student Researcher   *Glassboro, NJ*

- Leverage skills in Calculus, Linear Algebra, Prob. & Stat. to develop new techniques
- Port peak-picking algorithms using liquid chromatography-mass spectrometry (LC-MS) into *Python*
- Integrate datasets from *LC-MS* into existing *2D* peak-picking & *3D* visualization application
- Integrate GUI functionality to accomodate dataset exploration & visualization
- Evaluate existing Java *MZmine2* mass-spectrometry library to custom *Python 3.8.x* library modules
- Evaluate *Jython/Cython, C++* integrations to eliminate bottlenecks & increase model speed
- Port existing *GridMass 1D* & *2D* peak-picking algorithms in *Java* to original Pythonic code
- Present research findings to senior Rowan & BMS engineers for approval
- Participate & engage in code review with Rowan & BMS engineers for production-grade code evaluation

PROJECT EXPERIENCE

Lockheed Martin & Rowan University   Jan. 2021 - May 2021
Product Owner & Developer • *Stochastic Threat Assessment - Software Eng. I*   *Glassboro, NJ*

- Managed software development project lifecycle by monitoring burn-ups & feature backlog tracking
- Worked with product client to identify functional business requirements
- Translated client business requirements into actionable, modularized featuresets for development
- Observed AGILE methodologies to produce threat modeler application
- Engaged in discussion with *Scrum Master* & dev. team to pull functional requirements on backlog
- Lead & designed development on front-end PyQT5 GUI client & approved refactors in code review
- Supervised key automated LaTex executive summary generation feature development per client specs
- Supervised nmap-version scanning development & distributed back-end endpoint validation testing
- Assisted developing cutting-edge stochastic & *Gillespie's algorithm* modelings for cyber threat analyses
- Organized development sprints & presented featureset milestones to client
- Assisted in final abstract & poster development for presentation
- Presented findings & demo application to *Lockheed Martin*

TECHNICAL SKILLS

Preferred Programming Languages	Java, Python, R, C#
APIs	JSON, REST
Databases	SQL Server, MySQL
Tools	Flask, Kestrel, Jupyter, JMP Pro, Docker,
	Git, GitLab, BitBucket, JIRA, Linode,
	ASP.NET Core 5, LaTex

PEDAGOGICAL EXPERIENCE

Little Flyer's Academy   Feb. 2015 - Present
Preschool Teacher   *Atlantic City, NJ*

· Create lesson plans tailored to individual groups of children
· Attend best-practices education conferences & emergency trainings (CPR, active shooter)
· Photograph students using *Cannon 5D* during official holiday events
· Edit photographed events for use in official marketing materials using *Photoshop* & *Aperture*
· Produce & edit slideshows, voiceovers, & movies for Pre-k graduates