

SKILLS

- **Languages:** Python, C, C++, PHP, JavaScript
- **Tools:** Git, JIRA, TestRail, Jenkins, BitBucket
- **Spoken Languages:** English, French, Arabic
- **Tech:** Jekyll, Django, L^AT_EX, HTML, CSS, SQL
- **Misc:** Agile, Scrum, Kanban, Technical Writing

EXPERIENCE

- **Software Developer In Test** May 2017 - Aug. 2019 (2y 4m)
Delta Controls Inc. *Surrey, BC Canada*
 - Migrated entire codebase, containing 400+ files and 150k+ lines of code, over to Python 3 while ensuring that it remained backwards-compatible with Python 2
 - Reconfigured our Jenkins workflow to utilize virtual environments instead of configuring Python directly on the build machines, in order to decrease job length and increase run reliability
 - Developed numerous internal tools which helped coworkers streamline their API, UI, and DB testing, reducing the man-hours required to execute tests
 - Implemented performance testing and result collection programs that shaved days of effort off manual analysis and processing procedures
 - Maintained and improved internal testing framework built with Python using Pytest, Selenium, and Flask-RESTful
 - Collaborated with developers and team leads to automate and schedule test suites for new devices, and features

PROJECTS

- **Data Mining Classifier** classifier.bassi.li
Trains Models To Predict Interest Levels In Rental Listings
 - Proceeded through the whole data mining pipeline including data cleaning, exploratory data analysis, feature extraction, model selection, model training, and model evaluation
 - Utilized modern machine learning methods techniques like cross-validation and random forests to produce robust models that executed at a 73% accuracy
- **OpenGL Rendering Engine** opengl.bassi.li
OpenGL renderer and rasterizer written in pure C++
 - Wrote entire graphics back-end in pure C++ without relying on existing graphics libraries
 - Implemented features like SSAO, shadow mapping, various shaders, and perspective rendering
- **Interpreted Programming Language** simplescript.bassi.li
Programming Language Built From Scratch Using Python
 - Wrote the lexical analyzer, parser, and interpreter for my own programming language
 - Structured the language syntax to accept and interpret BASIC-like commands and functions
 - Allows for recursion, looping, program execution, data storage and manipulation, and the reading of external programs and inputs

EDUCATION

- **Simon Fraser University** Burnaby, BC
Bachelor's of Computing Science *Sep. 2015 - Aug. 2020*
 - Coordinated and executed several Collegiate Gaming Club events
 - Relevant courses include Data Mining, Symbolic Computing, and Information Retrieval

REFERENCES

Professional references are available upon request.