Michael Bassili

British Columbia Canada

code.bassi.li

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Skills

- **Languages**: Python, C, C++, PHP, JavaScript
- **Tools**: Git, JIRA, TestRail, Jenkins, BitBucket
- **Spoken Languages**: English, French, Arabic

Tech: Jekyll, Django, LaTeX, 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 Quantum Computing

References

Professional references are available upon request.