Derek Robati

Software Developer

Education

Aug 2009
– Dec 2011

Bachelor of Science in Computer Science,
Southern Polytechnic State University, Marietta.
Courses explored outside core degree classes include Digital Image Processing, OpenGL, and Distributed Computing.

Experience

Vocational

Jun 2010
– Present

R&D Engineer, Systems Integration Testing,
ADVA Optical Networking North America, Inc., Norcross.
Detailed achievements:
- Designed new python framework to be used in automation efforts.
  - Provided generalized solutions to handle a multitude of interfaces.
  - Worked on an international team from Germany, Norway, Poland, and US.
  - Peformed many regressive and endurence tests.
- Constructed test coverage from requirements for many products.
  - Tested 100G core modules, EDFA/RAMAN amplifers, and 9 degree ROADMs.
- Demonstrated product functionality to current or potential clients.

Sep 2006
– Jun 2010

R&D Engineer, Test Engineer,
ADVA Optical Networking North America, Inc., Norcross.
Detailed achievements:
- Developed TestStand suites on test benches to examine limits of newly manufactured modules.
- Developed internal website to display Test Engineering projects to other departments.
  - Built on Django with custom ORM routing to external PostgreSQL database.
  - Test results from test benches stored into PostgreSQL database was then accessable through website.

May 2006 – Sep 2006	**Intern, Test Engineer**, *Movaz Networks, Inc.*, Norcross.

Detailed achievements:
○ Learned technologies used in the fiber optical telecommunications field.
  - Started with fundamentals of optics and how systems are configured.
  - Worked with equipment in core, access, and optical amplifiers.
  - Learned how telecom protocols worked such as OTN, SONET, SDH, and Ethernet.
○ Documented test solutions designed by senior engineers.
○ Extended wxPython application to support more features, like larger optical switch maps.

Miscellaneous

Sep 2008 – Feb 2009	**IT Administrator**, *The Monticello Corporation*, Atlanta.

Supported a small office, with typical IT tasks.

Computer skills

Languages	Python, Javascript, Lisp, C++, C, Java, Perl, Ruby, PHP	Packages	Django, PIL, Robot Framework, fabric, jQuery, d3.js, leaflet.js, bootstrap
Servers	Mongrel 2, nginx, gunicorn, twisted, apache	Databases	PostgreSQL, MySQL, SQLite3, redis
Tools	vim, emacs, zsh, tmux, virtualenvs	Web	HTML5, CSS3

Interests

Puzzles and logic games	I have a love for strategy and critcal thinking games. I love playing Go or speedcubing.
Music	I enjoy many genres but mainly listen to electronic music and folk.