

# PATRICK KALITA

Full stack software engineer with front end expertise

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http://www.patrickkalita.com

## SKILLS

**Front End** React, Redux, Webpack, Babel, Sass, CSS-in-JS, Bootstrap, D3, WebGL, Gatsby, AngularJS, jQuery

**Back End** Java, Groovy, Spring MVC, Hibernate, PostgreSQL, Solr, Node.js, Python, Flask

**Workflow** Git, SVN, Agile, Jira, Jenkins

## WORK EXPERIENCE

### University of Oregon (Zebrafish Information Network)

June 2014 - Present

Software Developer

Eugene, OR

Full stack software development of zfin.org and alliancegenome.org

- Modernized zfin.org front-end software stack and build pipeline, migrating from a collection of jQuery plugins to Babel-compiled React components
- Led team of front-end developers for alliancegenome.org, setting technical direction, managing release deliverables, and communicating with senior leadership
- Redesigned and led implementation of new home page and critical data access pages for zfin.org

### TurboSquid

April 2013 - May 2014

QA Developer

New Orleans, LA

Developed automated web front-end and REST API tests in Java and Ruby for turbosquid.com and various internal projects

- Built a system for generating randomized 3D model and texture files, including a Python-based web interface
- Led training sessions to teach Ruby programming basics to members of QA manual testing team
- Initiated code review process within QA development group
- Maintained continuous integration and testing server and pool of test execution machines

### MathWorks

November 2009 - March 2013

Quality Engineer

Natick, MA

Developed automated tests for MATLAB graphics and data visualization functionality using an extensible, object-oriented, xUnit-compatible testing framework

- Worked with developers to design test cases and authored test procedure documents to capture testing strategies
- Led efforts to test graphics rendering performance and identify potential performance regressions
- Maintained and extended a suite of tests designed to automatically validate the visual correctness of rendered graphics and charts
- Developed a web-based, database-driven tool to track team member statuses and facilitate more efficient weekly meetings

## **MathWorks**

Application Support Engineer

June 2008 - November 2009

Natick, MA

Provided technical support to customers by creating examples and demonstrations, suggesting workarounds for bugs and limitations, and relaying enhancement requests to software developers

- Authored internal training materials on MATLAB graphics fundamentals, data visualization functions, and data exploration tools in MATLAB
- Delivered presentation on volume visualization techniques in MATLAB which was presented internally for the technical support department and externally on a company blog for users

## **EDUCATION**

### **Purdue University**

Master of Science in Electrical Engineering

August 2006 - May 2008

West Lafayette, IN

Concentration in Signal and Image Processing

### **Rose-Hulman Institute of Technology**

Bachelor of Science in Electrical Engineering

August 2002 - May 2006

Terre Haute, IN

Minor in Mathematics