Jonathan Price

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Skills

Skill Areas	Test Driven Development, Real-Time Programming, Distributed Systems, Web Development, Object Oriented Programming, Agile Development, Automation, Continuous Integration, Data Analysis
Languages	Python, JavaScript, C, C++, Java, Go, Bash scripting, R, Prolog, PHP, SQL, HTML, CSS, SVG, LaTeX
Technologies	Jenkins, Git, Node.js, Linux, GDB, Eclipse, Visual Studio, REST APIs, PostgreSQL, SQLite, MySQL

Work Experience

Oct 2016 – Present **Software Engineer**, *The Boeing Company*, St. Louis, MO.
- Developed real-time, distributed software for aircraft training simulator.
- Increased simulation fidelity by correcting discrepancies between simulator and aircraft behavior, including battery conservation logic and behavior of controls for pilot display brightness.
- Performed peer reviews of code; conceived and presented designs at design reviews.
- Created Jenkins jobs for packaging and deployment.
- Automated backup and version control of shared configuration and data files.
- Developed tools to generate metrics of development progress and to aggregate Git commits by task.
- Improved trainer response time by implementing caching of simulation scenario files.
- Technologies Used: Test-Driven Development, Inter-Process Communication, Python, C, C++, Git, GDB, Eclipse, Visual Studio, Packet analysis with Wireshark, REST APIs, Google Test

May 2016 – Aug 2015 **Software Developer Intern**, *IBM*, Lenexa, KS.
- Identified classes build errors likely to be automatically resolvable.
- Created Jenkins jobs to automatically restart the applicable failing builds.
- Wrote scripts to aggregate disk space and up time of all Unix build nodes, covering five operating systems.
- Designed and implemented an online dashboard with an error classification rule editor.
- Technologies used: Continuous Integration, Jenkins, JavaScript, HTML, CSS, Bash scripting, Perl, Groovy

Aug 2014 – Dec 2014 **Research Assistant**, *University of Missouri*, Columbia, MO.
- Prototyped a web application to enable crowd-sourced labeling of hyperspectral satellite imagery. These labels could then be used to train the supervised learning algorithm which the lab was developing.
- Technologies Used: JavaScript, SVG, HTML, CSS, Machine Learning

Jun 2014 – Jul 2014 **Research Intern**, *University of Missouri*, Columbia, MO.
- Participated in week-long intensive training in bioinformatics and high-performance computing.
- Developed a method for analyzing sets of syntenic genes in five species of grasses.
- Gathered, formatted, and filtered large genomic datasets using Unix shell and Perl scripts.
- Technologies Used: Bash scripting, Perl, data analysis, bioinfomatics

Jun 2013 – Aug 2014 **Research Assistant**, *University of Missouri*, Columbia, MO.
- Modeled Protein-Protein Interaction Networks in *Arabidopsis* using dynamic network models.
- Developed a mathematical framework for characterizing dynamic networks.
- Technologies Used: Mathematical modeling, Network science, Genetics and Proteomics

Aug 2013 – Dec 2013 **Mathematics Tutor**, *University of Missouri*, Columbia, MO.
- Tutored Calculus one-on-one by appointment.

Jan 2012 – May 2012 **Mathematics and Supplemental Instruction Tutor**, *San Diego City College*, San Diego, CA.
- Provided both one-on-one and group tutoring in mathematics up to Calculus II.
- Proctored exams and assisted students with practice problems during classwork period.
- Graded homework and in-class assignments.
- Organized and led study groups of 3-8 students.

Education

May 2016 **Truman State University**, *Bachelors of Science*, *Computer Science*.