JON DAVID

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EDUCATION

University of New Mexico, Albuquerque, NM   August 2016 - Present
Doctor of Philosophy in Computer Science
Advisor: *Professor Lydia Tapia*

University of California, San Diego - Extension, La Jolla, CA   September 2014
Certificate in Data Mining

National University, La Jolla, CA   November 2013
Master of Science in Computer Science

San Diego State University, San Diego, CA   May 2008
Bachelor of Science in Computer Science
Minor in Mathematics

TEACHING EXPERIENCE

University of New Mexico   January 2016 - May 2016
Teaching Assistant   *Albuquerque, NM*

· Provided office hours and grading for undergraduate class CS241: Data Organization

PROFESSIONAL EXPERIENCE

FICO   May 2013 - Present
Software Engineer-II   *San Diego, CA*

· Integrated and configured analytic models for debit and credit card fraud detection.
· Developed Python and shell scripts to automate parts of daily tasks and increase personal efficiency.
· Authored new and upgraded outdated installation and configuration documentation.

CareFusion   December 2008 - May 2013
Software Engineer   *San Diego, CA*

· Developed a package transfer client to transfer network configuration files from our device to a wireless module within our device.
· Developed an in-house script to automate CareFusion's static and dynamic analysis process.
· Supported sustaining and maintenance efforts by analyzing bug trackers, finding root cause, designing, implementing, and testing fixes.
· Assisted an electrical engineer debug a hardware issue by adding debug terminal commands to control GPIO registers used for serial communication between our device and wireless module.

CareFusion (formerly known as Cardinal Health)   October 2007 - December 2008
Intern, Software Engineer   *San Diego, CA*

· Authored a section of an Intended Use Validation (IUV) document for CareFusion's use of LDRA. This document described tests that confirm LDRA behaves expectedly for defined uses of LDRA.
· Prototyped mock screens of next generation project that communicated with mock system components using distributed architecture.

TECHNICAL SKILLS

Research Interests	artificial intelligence; machine learning; motion planning; computational biology
SW Engineering	UML; OOP; unit testing; multithreading; UI; embedded systems
Languages	Common Lisp; Python; C; C++; Java; Matlab; GNU Octave
OS & Tools	Windows; Linux; Mac OSX; GNU Emacs; Git; SVN; gcc; scons; LaTeX
Specialized Tools	Pymol; Chimera

COMMUNITY SERVICE

Computer Science Graduate Student Association　　　　　August 2016 - Present
Secretary　　　　　*Albuquerque, NM*

· Responsible for organizing the 2017 Computer Science Student Conference at UNM