

Pat Kujawa

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SUMMARY

I love to learn and try out new things while delivering practical solutions. I am a pragmatic programmer eager to work directly with clients and users to deliver the right product, on time and with a smile. When I was one of two application programmers at a twelve-person engineering consultancy, I worked with a number of diverse technologies to deliver, support, and maintain over a dozen custom desktop applications. As a Master's candidate, I was immersed in disparate languages and algorithms, learning the best tool for the job. I am eager to use my skills at a company that shares my interest in providing creative and practical solutions where technology can be of help!

Check out some of my [writing samples](#) and [open-source contributions](#).

SKILLS

LANGUAGES

- Python (Professional working proficiency)
- Javascript (Professional working proficiency)
- HTML (Limited working proficiency)
- Scala (Elementary proficiency)
- Java (Elementary proficiency)
- C# (Professional working proficiency)
- R (Limited working proficiency)
- CSS (Limited working proficiency)
- TCL (Limited working proficiency)
- C++ (Elementary proficiency)

EXPERIENCE

University of Montana 08 / 2013 - 12 / 2013
Instructor/TA

Instructing one section and two labs of CSCI 100, Intro to Programming (using VB) with 20 students. Creating lectures, grading, and maintaining a web presence for the course.

Montana Department of Transportation 05 / 2013 - 08 / 2013
Intern, Information Systems

Quickly learned Visual Basic and Entity Framework to join a team (transitioning from waterfall to a scrum-like process) and contribute new functionality to an existing solution.

Added features to an open-source extension for MS chart controls

(<https://github.com/pckujawa/MSChartExtension>). Advised refactorings of Java and javascript mobile apps for reusable architecture.

Attended a great 3-day agile training session by Accelebrate

(<http://www.accelebrate.com/training/agile-developer>). Worked with my team to implement and use that training.

University of Montana 09 / 2012 - 05 / 2013
Research Assistant (Dr. Rosulek)

Designed and implemented a framework for algorithm visualizations (particularly graph algos) using only client-side browser technologies. Made use of jQuery, jsPlumb, underscore.js, and Chrome dev tools.

Visual Learning Systems (Overwatch) 2012 - 2012

Test & Build Intern

Researched and set up automated build/test environment (TeamCity). Updated legacy code to facilitate automated testing. Began prioritization of test areas using NDepend. Supervisor quote: "I have worked with a lot of coders in my time and you are one of the top 10."

University of Montana

01 / 2012 - 05 / 2012

Research Assistant (Dr. Raiford)

Researched classification methods for metagenomic data using RapidMiner software. Pulled data from web APIs using python; parsed output of linux bioinformatics tools. Presented conclusions with poster at local research conference.

Advanced Electronic Designs

06 / 2008 - 08 / 2011

Software Engineer

Designed, implemented, and tested over a dozen Windows applications and several Linux/Mac applications.

Learned and used unfamiliar languages and paradigms on a deadline.

Coordinated efforts with internal and external teams.

Interfaced with electronics through Ethernet (TCP, UDP, SOAP), USB, RS-232.

Regularly employed multithreaded/parallel programming, test-driven design, and proven GUI design patterns (MVVM, MVC).

Used Microsoft .NET ecosystem: C#, WPF, WinForms. Comfortable with SQL, JSON, XML.

Delivered applications relying on device drivers, 64-bit targets, localization, performance profiling, legacy code, multiple OSes.

RightNow Technologies

2008 - 2008

Enterprise Systems Development Intern

Began adoption of a commercial single sign-on solution.

Big Sky Penguin, LLC

05 / 2006 - 08 / 2006

Web programmer

Server-side programming in PHP with MySQL database on Apache web server in FreeBSD and Linux. Taught myself the technology required to hit the ground running.

Client-side scripting and design in XHTML 1.0, Cascading Style Sheets (CSS 2.0), and JavaScript.

Worked independently on four projects - three from the ground up - and consulted on several more. Implemented client's design for the first version of writtenonthecity.com; eventually, a book was made of the site's uploaded images (<http://amzn.to/w6ntS8>).

Montana State University Physics Dept IT

09 / 2005 - 05 / 2006

IT Assistant

- Hardware troubleshooting and integration.
- Software troubleshooting, instruction, and optimization.
- General computer maintenance, troubleshooting, and building.
- Web design and Frequently Asked Questions (FAQ) authoring.
- Sole employee reporting to head of physics IT.

EDUCATION **The University of Montana** 2011 - 2013
Master of Science (M.S.) , Computer Science

Montana State University-Bozeman 2003 - 2009
Bachelor of Science (B.S.) , Computer Engineering and B.S. Physics

Highest Honors (magna cum laude), IEEE (chair/president), Alpha Phi Omega, Engineering Ambassadors, Cat Crew, Alpha Lambda Delta (vice president and webmaster), National Society of Collegiate Scholars (executive vice president), Society of Physics Students (president, treasurer, webmaster), Golden Key (treasurer), Intramurals

University of Limerick 2007 - 2007
Study Abroad , Computer Software Engineering and Irish Culture
Ultimate Frisbee Club, Outdoor Pursuits Club

INTERESTS Best practices, user-centered design, software engineering, project management, soccer, racquetball, board games

ASSOCIATIONS IEEE, ACM, MHS A (soccer officiating)