Monterrey, Nuevo León

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Objective

As I started self learning C++ before my Masters in 2009, I used Amazon for researching the most popular books on the subjects. The review system from amazon provides an excellent way to find great knowledge. Amazon helped raise my own bar with their own quality standards, I was able to provide great customer support, and obtain great knowledge, which eventually took me to learn better ways to craft my own code when developing AI.

As a developer that loves quality, simplicity and AI, I want to be able to give back to Amazon and be part of what makes the company so great. Given that most of my experience is with Machine Learning and Optimization I want to keep creating better solutions for optimizing complex searching, but doing it for Amazon as a Software Developer.

Tech

LaTeX

Bash
Batch

C#

HTML5

Tools

- Git
- SVN
- Autotools
- Windows
- Linux
- QNX

Professional Experience

AMI GE Automation & Control Innovation　　　June 2012 - Current
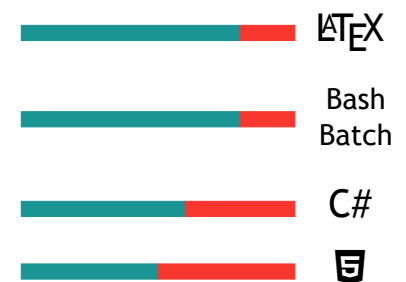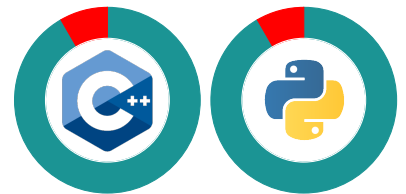
Project: Visual KB / SmartArc

- Provided Customer Support, documenting every single step and creating tutorials reduced customer support from 30 man hours average per project to 1 hour.
- Maintain manual up to speed reducing developers confusion and increasing production of new features.
- Rebuilt the installer application to prevent customer withdrawal from software old look and to improve configuration.

Project: DigitARC PX3

- Developed features for the QNX Embedded System, investigation of Audio Compression to decrease our database files in 60% size without quality compression.
- Provided Customer Support on any issue related, documenting every single step and creating tutorials reduced customer support from 6 man hours average per week to 2 hours per month average.
- Rewrote the Product Manual in LaTeX, added to build system. Modify once, publish on different places.
- Developed C++, Bash and Batch tests for finding breaking points in our system, successfully prevented errors when changes to crucial features of the system were done.

Professional Experience

AMI GE Automation & Control Innovation June 2012 - Current

Project: DigitARC PX3

- Built deployment tools that detect changes in our product and have allowed our engineers to test the product for correct communications when installing the software for our customers.
- Rebuilt critical FFT calculation using OOD, built proper Unit Tests for Continuous Integration, with this we stopped having calculation errors in the rest of the features and increased our product's reliability.

GE Consumer & Industrial 2008

- Developed 147 scheduled maintenance tasks, one for each equipment, deployed and trained maintenance and production personnel.
- Got the right tools for maintenance tasks, performing all the procurement and obtaining all administrative permissions.
- Performed corrective maintenance when necessary, even if it included getting grease all over me.
- Coordinated preventive maintenance tasks with the maintenance personnel.
- Trained Purchasing Leader, Technology Leader, Maintenance Leader, and Production Leader in the use of PMPro tool so they could maximize their benefits from Preventive Maintenance.

Education

Tec de Monterrey Monterrey, N.L.
Master in Science with Specialty in Intelligent Systems (2010)

- Member of Professorship of Applied Intelligent Agents in Videogames.
- Specialization in Particle Swarm Optimization and Emergent Behavior Algorithms.

Tec de Monterrey Campus Sonora Norte Hermosillo, Son
Mechatronics Engineer (2004-2008)

Projects

Phoenix2D Project

Open Source project to allow students to develop their own Player to compete in RoboCup Soccer Simulation. Currently redesigning implementation.

- Created build system using GNU Autotools.
- Created website.
- Create documentation.

Ad Generator

- Developing Cross Platform App to Allow easier Ad Generation for multiple web platforms.