

Daniel Asher Resnick
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EXPERTISE

- C#, Java, C++, Perl, Python, Javascript, shell
- Functional Programming; Haskell, Scheme/Racket
- HTML, XML, ASP.NET MVC; LaTeX; SQL
- Version control; Git, Mercurial, SVN
- Linux, Windows
- Scientific Analysis; Data Gathering and Modeling

WORK EXPERIENCE

Programmer, Ofcdesk, Oct 2019 - April 2020
Chicago, IL USA

- Worked on several .NET software projects, with C# as the primary language.
- Maintained and enhanced Content Controller, a product catalog manager desktop application built in WPF
- Prototyped a revision control tool for Content Controller
 - Implemented the core revision control logic, using LibGit2Sharp as the programmatic interface to git
 - Designed and implemented the graphical front end to the tool
- Prototyped a new website allowing clients centralized access to all products and account features leveraging ASP.NET MVC and Bootstrap
- Introduced a new workflow for the development team:
 - Migrated the existing svn repositories to git
 - Introduced the master/develop/feature/hotfix branching model to optimize concurrent work.
 - Produced documentation to guide the new workflow
- Assisted in managing code repositories

Programmer I, The Mx Group, Aug 2015 - Oct 2016
Burr Ridge, IL USA

- Helped maintain 4 websites, supporting the full stack on each: frontend javascript and markup, application logic, web and application server configurations, database definitions and access layers, and build+deploy configurations.
 - 2 ASP.NET/C#/IIS/MS SQL Server stacks
 - 2 Apache Struts 1/Java/Apache+JBoss/MySQL stacks
- Applied data updates for 3rd party tools, keeping all environments in sync
- Assisted in the upgrade of 2 servers; provisioned the servers, migrated the databases, updated build and deploy configurations, and upgraded the applications.
- Participated in agile environment, with daily scrums and task management through Kanban
- Used Git and Subversion for source control, and migrated a Subversion project to Git
- Initiated using Vagrant to wrap per project development environments in Virtual Machines.

WORK EXPERIENCE (INTERNSHIPS)

Web Developer, University of Waterloo, Jan - April 2013
Waterloo, ON Canada

- Developed components for web service portal in C#, ASP.NET, MVC, and jQuery

Physics Research Assistant, SNOLAB, May - Aug 2012
Lively, ON Canada

- Developed C++ code for a physics simulation framework
- Developed a Monte Carlo simulation of alpha particles hitting a detector

Programming Tutor, Sheridan College, Sep - Dec 2011
Brampton, ON Canada

- Tutored students in introductory Programming and Computing Mathematics
- Assisted instructors in delivering lecture material for an introductory Java course

EDUCATION

Coursework towards Bachelor of Mathematics
University of Waterloo, 2010 - 2014

High School Graduate
American School of Recife, June 2010

ACTIVITIES AND INTERESTS

- Math and Physics
- Science Fiction and Fantasy (novels, TV shows, and movies)
- Roleplaying Games and Board Games
- Skiing, Biking and Piano