David Roberts

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Certifications

Security Clearance US Citizen with security clearance
PMI ACP: Agile Certified Practitioner since September 2012

Experience

- **General Dynamics Advanced Information Systems**   **Fairfax, VA**
  Web Developer & Scrum Master   *June 2011 – Present*

    – Scrum master and developer for seven person Agile development team.
    – Held weekly face-to-face meetings with customer and product owner. Delivered production-ready software every two weeks.
    – Built indicator database using Ruby on Rails / jQuery / CSS / PostgreSQL to coordinate cyber information sharing and manage cyber risks for US-CERT and the Department of Homeland Security
    – Developed on Linux, source managed using Git SCM, code reviews with GitLab, continuous integration using Jenkins, Test Driven Development (TDD) using Cucumber / RSpec, deployed using Capistrano, and documented using LaTeX
    – Prototyped storage application for network intrusion prevention and detection system using PHP CodeIgniter.

- **EMC (NetWitness)**   **Reston, VA**
  Software Engineer   *October 2010 – June 2011*

    – Produced real-time network forensic engineering software.
    – Developed applications using Java / Spring / Hibernate to monitor and analyze network threats.
    – Maintained client management software used to monitor sensitive information on workplace systems, written in $C^\sharp$
    – Utilized Amazon EC2 cloud services to perform service oriented architecture tasks for NetWitness Spectrum. Spectrum was the winner of the 2011 American Business Awards New Product or Service of the Year Stevie Award.

- **Network Designs**   **Washington, DC**
  Web Developer   *September 2008 – October 2010*

    – Maintained two large scale $C^\sharp$ ASP.NET web applications with SQL Server 2008 back ends for the FAA.
    – Programmed data managers for Microsoft SharePoint systems.

- **London Computer Systems**   **Cincinnati, OH**
  Application Developer   *May 2007 – August 2008*

    – Developed accounting software for property management companies using $C^\sharp$ ASP.NET and Visual Basic 6
    – Created and designed web applications from the ground up to interact with existing customer databases

- **General Electric**   **Cincinnati, OH**
  Information Management Leadership Program   *May – August 2004, 2005, 2006*

    – Allowed auditors to perform on site field audits using tablet PCs by creating an app in VBA / Excel to replace paper and pencil audits.
    – Deployed and bootstrapped Unix-based systems using Perl. Certified a new hardware technology stack to run internal applications.

- – Reduced deployment costs by initializing servers to run specialized applications on commodity hardware.
- – Laid out a workflow to identify non-value-added steps. Reduced the number of steps required in GE's software change process. Shortened the turn around time for software fixes.

- **BitWise Communications LLC** **Cincinnati, OH**
  Founding Partner *May 2003 – August 2006*
  - – Co-founded a software development company while attending university.
  - – Performed company management operations including creating the marketing website.
  - – Developed a cross platform (Windows, Mac and Linux) software client in C++ and the wxWidgets library.
  - – Client allows for encrypted chat, file transfers, and voice chat.

Education

- **Miami University** **Oxford, OH**
  Computer Science, Master of Computer Science *2005 – 2007*
  - – Graduated 2007 Cumulative GPA 3.5
  - – Research Area: Interdisciplinary tool between Mechanical Engineering and Systems Analysis to study discontinuous systems

- **Miami University** **Oxford, OH**
  Systems Analysis, Bachelor of Applied Science *2001 – 2005*
  - – Double major: Systems Analysis and Computer Science
  - – Taught supplemental courses to provide help for students taking Java courses
  - – Graduated 2005 *Cum Laude* 3.5 GPA

Projects / Skills

GitHub A full list of my personal projects can be found at github.com/daveroberts including:
  - > **Happy Puppy:** I created a simple MVC PHP web framework with an Object Relational Mapper (ORM).
  - > **vim scripting:** Scripting/programs for my VIM configuration.
  - > **RubyScrapers:** Web scrapers used to lift information from websites without an API made with Ruby and Nokogiri.
  - > **C$^\sharp$ Apps:** Created a simple lexical analyzer and expression parser to improve on the basic calculator in Windows. Created applications to rename all files in a directory with regular expressions.

SQL: I have used SQL at every job listed in my experience, varying from Access to SQLite to SQL Server. I also have experience with NoSQL solutions such as MongoDB.

Real Time Applications: I am interested in real time web technologies such as Meteor, Node.js, and other JavaScript MVC frameworks like Angular JS and backbone.js Presently, these frameworks aren't widely used. If your company uses these frameworks, I am very interested.

Functional Programming: I believe in learning multiple programming paradigms. I have successfully completed the course Functional Programming Principles in Scala, taught by the creator of Scala and Java compiler designer Martin Odersky.