

Alan Ward

Senior Software Engineer

arw180@gmail.com
(610) 812-2717
arw180 arw180

Profile

Full stack web developer with TS/SCI clearance and experience in mobile software development, scrum/agile/CI processes, and high performance embedded computing technologies

Skills

Front-end: AngularJS, Bootstrap, HTML5, JavaScript, CSS3

Server-side: Python, MongoDB, SQL, Django, Flask, Linux, C++

Software process: Git, Scrum, Agile, Git workflows, JIRA, Trac

Self-improvement: Coding Horror, Lean Startup, Lean UX, Drive, JS: Good Parts, Hacker News

Experience

Axios, Inc

Software Engineer

Jul 2014 - Aug 2014

Developing the next generation OZONE Widget Framework (OWF), the OZONE platform

BTS Software Solutions

Senior Software Engineer

Jan 2013 - Jul 2014

Lead software engineer and scrum master on several web-based applications for military and IC customers

Scrum master and lead developer (internal) for multi-contractor effort to modernize existing USAF and IC application

Scrum master and lead developer for Flask-based simulator application to exercise a cellular and SIGINT application

Designed and implemented front- and back-end of web application for command and control of an embedded RF scanning device. Technologies included Python, PostgreSQL, Django, and Flot

Enhanced a tactical cellular management software product including a mobile Android SIP application, Python-based JSON-RPC and MySQL/PostgreSQL back-end, and Django front-end

Northrop Grumman

Systems/Software Engineer

Jun 2007 - Jan 2013

Developed software for open architecture platform for military applications with a focus on high performance embedded computing technologies

Collaboratively developed a real-time, event-driven component framework in C++ using open standards including DDS, CORBA, and VSIPL++. Worked with algorithm experts to implement signal-

processing intensive applications on top of component-based framework
Managed subcontracts and represented Northrop Grumman in the High Performance Embedded Computing (HPEC) and Object Management Group (OMG) communities at conferences and standards body meetings. Delivered numerous presentations at MIT Lincoln Labs regarding the Vector Signal and Image Processing Library (VSIPL++)
Solely designed and developed an automated test framework to support a Continuous Integration (CI) process. Reduced testing effort by over 80%

Forte Sounds

Entrepreneur

Jan 2003 - Jan 2007

Designed, built, tested, and marketed hi-fidelity loudspeakers

Designed and oversaw production of multiple pairs of hi-fidelity loudspeakers
Exhibited loudspeakers at the Rocky Mountain Audio Fest tradeshow in Denver, CO in October 2006
Designed and produced PCBs for electronic crossover networks
Created 3D CAD/CAM drawings in SolidWorks
Created company webpage and marketing literature

Education

Johns Hopkins University

Master of Science in Computer Science

Dec 2011

The Pennsylvania State University, Schreyer Honors College

Bachelor of Science in Electrical Engineering, Entrepreneurship (minor)

May 2007