

Alexander D. Mills

650-269-9502

alexmillsmail@gmail.com

www.linkedin.com/pub/alexander-mills/b/7a5/418/

Active US Government Security Clearance: TS/SCI with full-scope polygraph

SKILLS

Software/Programming: Object-oriented Java SE/EE, Oracle PL/SQL, Groovy, Scala, Ruby (Ruby on Rails), Android OS, MySQL, Matlab, Minitab, SAS, DB4O (Versant), basic C and C++

Github: www.github.com/the1mills

StackOverflow: www.stackoverflow.com/users/1223975/alex-mills

CAD/CAM: Pro/E, Rhinoceros, Mastercam

Mathematical Modeling: Operations Research techniques such as linear and non-linear mathematical programming and regression techniques, probability and stochastic methods, mathematical optimization, revenue management, ARIMA forecasting techniques

Systems Simulation: Simulink, Arena (discrete-event simulation)

Management Science: Management and decision science tools using Excel and VBA, continuous improvement process (CIP) techniques such as Kaizen and Six Sigma, quality assurance techniques such as design of experiments (DOE)

EXPERIENCE

Recondite Innovations

Rails and Android development for stealth-mode mobile startup

Los Altos, CA

Jan. 2014- present

- Building confidential Ruby on Rails and Android applications for electronic cash startup company.

TASC, Inc.

Java and Oracle Programmer

McLean, VA

May 2011- Jan. 2014

- As a mid-level software developer, supported a government group on a small TASC information technology and software development contracting team, primarily focusing on Java development for front and back-end applications.
- Provided technical services to the client on a team managing an Oracle data warehouse. Created full-stack Java applications for customer organization, primarily for CRUD and ETL operations.
- Coded more than 80% of the time on a day-to-day basis, and 60% of that time in Java, 30% with Oracle PL/SQL and 10% with Ruby on Rails. Developed, maintained, debugged, and optimized Java, Oracle and Ruby code, using the Eclipse IDE, Oracle SQL Developer, the Aptana IDE and Eclipse Memory Analyzer (MAT).
- Wrote unit tests using JUnit for the majority of the Java classes I wrote.
- Conducted extensive system testing and data quality assurance testing, using SQL scripts, Excel, etc.
- Used Subversion for version control and development as a team.
- Interacted closely with government client to understand business requirements and help manage, move, and advise the business process.
- Worked on the migration of several desktop Java applications to Ruby on Rails web-based applications.
- Created, updated and maintained business documentation and manuals.
- Contributed to TASC business proposals in response to RFPs.

Dynamics Research Corp.

Database Administrator (Contractor)

Linthicum, MD

Feb. 2011 –April 2011

- Managed an MS Sharepoint deployment with SQL Server 2005, using SQL Server Management Studio and PowerShell.

Booz Allen Hamilton*IT and Networking Consultant***Fort Meade, MD***Sep. 2010-Feb. 2011*

- Worked on the Mission Performance and Policy Analytics (MPPA) team on computer network analysis and optimization.
- Trained to use Opnet software to model and analyze networks.
- Created and managed the MPPA Microsoft Sharepoint website and a best-practice website devoted to visualization technology.
- Conducted market research and submitted proposals for future MPPA work at Aberdeen Proving Ground, MD.

Rockwell Automation*Product Lifecycle Management (Summer Intern)***Cleveland, OH***June 2010-Aug. 2010*

- Worked with SAP Enterprise software to manage product lifecycle data- from pilot production project data to cash-flows.
- Used VBA and Oracle code to manage data and perform ETL operations.
- Worked with Rockwell plant managers worldwide with information integration for Rockwell's Global Process Transformation (GPT) project.

The Research Foundation of the State University of New York*Researcher with School of Management at SUNY Buffalo***Buffalo, NY***Aug. 2008- June 2009*

- Lead author of conference (GITMA, Mexico City, 2009) paper and published journal (JIPS) paper on disaster mitigation. (See: Publications, below.)

EDUCATION

University at Buffalo, SUNY

B.S. Industrial and Systems Engineering

GPA 3.5/4.0, (3.8 in major)

Honors: Tau Beta Pi, Cum Laude**May 2010****University of California, Santa Cruz**

B.A. Analytic Philosophy and Logic Studies

June 2007**PUBLICATIONS**

“Web 2.0 Emergency Applications: How Useful Can Twitter Be in Emergency Response?” (Journal of Information Privacy and Security, Volume 5, Issue 3, 2009)

VOLUNTEER**Washington, D.C. Chapter of Sierra Club** (<http://dc.sierraclub.org>)*Board Member***Knowledge Commons DC** (<http://www.knowledgecommonsdc.org>)*Teacher***Washington, DC***July 2011 – July 2012***Washington, DC***Feb. 2011 – Oct. 2012***EDUCATIONAL COURSEWORK INFORMATION**

Relevant Coursework from Industrial Engineering program: Operations research and general optimization techniques, production planning and operations management, facilities layout and design, computer-integrated manufacturing, manufacturing automation, control systems, quality control, discrete-event simulation (with Arena), continuous and sampled control simulation (Simulink), ergonomics, revenue management, computational econometrics (with SAS), environmental engineering, safety engineering

IE Course Projects: Temperature control optimization, CNC machining using Rhino and Mastercam, queuing theory research, emergency management research, business forecasting and time series analysis, Monte Carlo simulation, design of experiments for inventory and quality control

*Information about NC State computer programming certificate program: <http://engineeringonline.ncsu.edu/PS/CPC.html>
