JASON PUL
FULLSTACK SOFTWARE ENGINEER

Summary

I joined the Air Force after high school and spent four years doing analysis and maintenance work. After my enlistment was completed I went to school and completed a BS and MS in Mechanical Engineering. I then went to work in an Aerospace/Electrical/Mechanical engineering cross-discipline area of Defense for 8 years. More recently, I've been attending a coding boot camp (Code Platoon) to become a Full Stack engineer.

Employment

Northrop Grumman
Survivability Engineer V — Melbourne, Florida — June 2013 to Apr. 2020

**descriptions purposefully kept vague, more details upon requests

• Designed and Optimized Air Vehicle Components
• Designed Test Articles, Developed Test Requirements, and Supervised Test Article Builds
• Executed Tests, Post-processed Test Results, Produced Test Data Packages, and Presented Test Results to Internal and External Customers
• Lofted Computational ElectroMagnetic (CEM) Models, Meshed CEM Models, and Ran Model Predictions Utilizing High Performance Computers (HPCs)
• Developed Software Tools that Automated Tasks (model creation, data processing, etc) and Reduced Design and Analysis Cycle Times
• Lead a Team of 7 Engineers as a Component Lead
• Trained Jr Engineers in Both Theory and Tools Used in Survivability

Sandia National Laboratories
Member of Technical Staff - Structural Dynamics Analyst — Albuquerque, New Mexico — Aug. 2011 to June 2013

• Produced Finite Element Models of Various Systems and Components
• Developed MATLAB Software that Ran LS-Dyna to Fit Simulations to Experimental Results
• Wrote MATLAB Scripts to Allow Production of Hundreds of LS-Dyna Analysis Decks Covering Desired Problem Space for Uncertainty Quantification
• Performed Implicit and Explicit Finite Element Simulations Utilizing High Performance Computers (HPCs)

Northrop Grumman
Engineer I — El Segundo, California

• Performed Aerodynamic and Thermal Elastic Stress Analysis using Nastran
• Collaborated in Designing an Aero-Gel Thermal Conductivity Measurement Device
• Mechanical Lead in Design of Automated Web-Handling Material Qualification and Validation Apparatus
• Produced Vehicle Mesh Models Using CATIA & Patran
• Developed MATLAB Program Enabling Faster Post-Processing of Test Data

United States Air Force
Senior Airman, Enlisted — Wonju, Gangwon, South Korea — Dec. 2003 to Nov. 2007

• Performed Spectral Analysis of Particulate Air Samples
• Deployed Worldwide to Set Up Portable Clean Rooms and Perform Anlaysis
• Maintained Seismic Array and Ensured Data Collections

Projects

The Jiu Jitsu Guide — Jan. 2020 to Current
TV Guide for streaming Brazilian Jiu Jitsu events

Scavenging Heroes — Jan. 2020 to Mar. 2020
YouTube based game show

Activities

Brazilian Jiu Jitsu — Fall 2008 to Current
learning and practicing Brazilian Jiu Jitsu

Contact

✉ jason.pul.ca@gmail.com
🌐 jasonpul.github.io/
📞 5624405680
📍 Austin, Texas
in jason-pul/
⌗ jasonpul

Education

Mt. San Antonio College — Fall 2007 to Spring 2008

University of Southern California — Fall 2008 to Spring 2010
BS Mechanical Engineering 2010

University of Southern California — Spring 2010 to Fall 2011
MS Mechanical Engineering 2011

Skills

MECHANICAL ENGINEERING
CATIA
Solidworks
Patran
Nastran
LS-Dyna
LS-PrePost
Cubit
Hypermesh

SURVIVABILITY ENGINEER
SWITCH
GEMS
Ram2d
SENTRi
Saber
RamCat
RamCad
Pioneer

PRODUCTIVITY/MISCELLANEOUS
Microsoft Office Suite
TORQUE
LSF

SOFTWARE ENGINEERING
Python
NumPy
SciPy
Django
JavaScript
Pandas
React.js
PostgreSQL
SQL
Matlab
Linux Command Line
Object Oriented Programming