JASON PUL

FULLSTACK SOFTWARE ENGINEER

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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.

EDUCATION

Mt. San Antonio College Fall 2007 - Spring 2008

University of Southern California Fall 2008 - Spring 2010
BS Mechanical Engineering 2010

University of Southern California Spring 2010 - Fall 2011
MS Mechanical Engineering 2011

EMPLOYMENT

Northrop Grumman, *Survivability Engineer V*, Melbourne, Florida June 2013 - 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 - 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 - 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

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

PROJECTS

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

Scavenging Heroes Jan. 2020 - Mar. 2020
YouTube based game show

ACTIVITIES

Brazilian Jiu Jitsu Current
learning and practicing Brazilian Jiu Jitsu