Benjamin Folks

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Aerospace-Software Engineer

Aerospace Engineer with seven years of Manufacturing, Design, and Software experience, along with real-world aviation experience gained as an *FAA Certified Instrument-Rated Pilot*.

Work Experience

RedShelf • Chicago, IL • January 2018 - Present

Content delivery system for providing digital materials to educational institutions

Software Engineer

- Work within an Agile engineering team using SCRUM methodology and continuous integration
- Create unit, integration, and acceptance (Selenium) tests in order to deliver maintainable code
- Build API endpoints allowing authenticated clients to access read/write operations
- Manage scheduled and on-demand asynchronous Python tasks using Celery
- Design and maintain SSO authentication service based on SHA256 hashing algorithm in Python
- Write efficient SQL statements and memoize results of complex queries to improve performance
- Setup new architectures to centralize business logic and maintain clear domain layers
- Layout and implement the Data Model for an entirely new collaborative data management tool

AdThrill • Chicago, IL • December 2017 – Present, (Part-Time)

Start-up website for users to watch and rate advertisements (adthrill-prod.herokuapp.com)

Technical Lead - Python Engineer

- Manage software architecture, implementation/testing of code, and deployments to production
- Compile/analyze all user-response data and allow businesses to view their corresponding results
- Create Python algorithms to optimize searches between businesses and target audiences

DP Technology – ESPRIT • Rosemont, IL • July 2012 – December 2017

Developer and supplier of computer-aided manufacturing (CAM) software for CNC machine tools

Senior Manufacturing-Software Engineer

- Create technical designs and determine machining processes/tooling necessary for manufacturing aerospace turn-key parts
- Build CAD designs and assemblies of dynamic machine models using SolidWorks 3D CAD
- Plan and create VB.NET/VBA applications within the ESPRIT API to automate the programming of fully functional programs for CNC mills, lathes, and multitasking machines
- Traveled onsite to over 35 aerospace and US government clients, including NASA Glenn, Woodward Inc, and Tinker AFB, in order to oversee technical projects and training classes

Technical Skills (rated from 1-10)

Programming Languages:

Python	••••••	JavaScript	••••••
HTML	•••••••	CSS	••••••
VB.NET/VBA	••••••	C++	••••••0000
Frameworks & Te	chnologies:		
Django/DRF	••••••	Ember.js	••••••
PostgreSOL		AWS	

Education

BS Aerospace Engineering • University of Illinois at Urbana-Champaign • 2011 FAA Certified Private Pilot - Instrument Rating

Certified SolidWorks Mechanical Design Professional • Certified Professional Scrum Master I