

Benjamin Folks

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Aerospace-Software Engineer

Aims to combine Aerospace Engineering background, Software Engineering experience, and 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 software engineering team using SCRUM methodology
 - Construct unit, integration, and acceptance (Selenium) tests in Python in order to deliver testable and maintainable code
 - Design and maintain SSO authentication service based on SHA256 algorithm in Python
 - Layout and implement Data Model for an entirely new collaboration tool designed to allow universities to manage material/pricing data for all courses
 - Create new architectures to centralize business logic and maintain clear domain layers
 - Build API endpoints allowing authenticated clients to access read/write operations
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AdThrill • Chicago, IL • December 2017 – Present, (Part-Time)

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

Lead Python Engineer

- Compile/analyze all user-response data and allow businesses to view their corresponding results via graphical representations on a web-based UI
 - Create Python algorithms to optimize searches between businesses and target audiences
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DP Technology – ESPRIT • Rosemont, IL • July 2012 – December 2017

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

Senior Applications 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
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Technical Skills *(rated from 1-10)*

Programming Languages & Frameworks:

Python	●●●●●●●●○	Django/DRF	●●●●●●●●○
HTML/CSS	●●●●●●●○○	JavaScript/Ember.js	●●●●●●○○○
VB.NET/VBA	●●●●●●○○○	C++	●●●●○○○○○

Design Tools (CAD):

SolidWorks 3D CAD	●●●●●●○○○	ESPRIT CAD/CAM	●●●●●●●○
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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