Benjamin Folks

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Aerospace-Software Engineer

Multi-faceted engineer with experience working on project teams in numerous fast-paced environments. 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
- Optimize Python tasks to be run daily that integrate internal data with external API's
- Design and maintain SSO authentication service based on SHA256 algorithm in Python
- Create email service integrating internal data models with live SendGrid web updates
- 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 Manufacturing/Software Engineer
- Create technical designs and determine machining processes/tooling necessary for manufacturing aerospace and automotive turn-key parts
- Build CAD designs and assemblies of dynamic machine models using SolidWorks 3D CAD
- Plan and create VB.NET 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

Programming Languages: Python, Django/DRF, VB.NET, VBA, JavaScript, Ember.js, HTML/CSS

Design Tools (CAD): SolidWorks 3D CAD, ESPRIT CAD/CAM

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

Interests

Aviation	Motorcycles	Gym	Baseball	Games	"Trading"