

## Benjamin Folks

E: [bfolks2@gmail.com](mailto:bfolks2@gmail.com) • M: (630)-217-5872

[bfolks2.pythonanywhere.com](http://bfolks2.pythonanywhere.com), [www.benfolks.com](http://www.benfolks.com), <https://github.com/bfolks2>

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### Aerospace-Software Engineer

Aerospace Engineer with seven years of Manufacturing, Design, and Software experience. Over 150 hours of flight time gained as an **FAA Certified Instrument-Rated Pilot**.

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### Professional Experience

**Stealth Space Company • Alameda, CA • September 2019 – Present**

*Launch company developing high performance electric pump-fed orbital launch vehicles*

#### Software Engineer

- Collaborate with systems and product teams on Mission Control software for orbital rockets
  - Develop operating system for managing the assembly procedures of each launch vehicle
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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](http://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
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**RedShelf • Chicago, IL • January 2018 – September 2019**

*Content delivery system for providing digital materials to educational institutions*

#### Full Stack Developer

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

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

#### Senior Applications-Manufacturing Engineer

- Create technical designs and determine machining processes/tooling necessary for manufacturing aerospace turn-key parts on CNC mills, lathes, and multitasking machines
  - Build CAD designs and assemblies of dynamic machine models using SolidWorks 3D CAD
  - Develop VB.NET/VBA applications within the ESPRIT API to automate machining processes
  - 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, & Technologies:

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

#### Design Tools (CAD):

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

**BS Aerospace Engineering • University of Illinois at Urbana-Champaign • 2011**

**FAA Certified Private Pilot - Instrument Rating**