

## Benjamin Folks

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

154 Portola Dr, Apt 4, San Francisco, CA 94131

[www.benfolks.com](http://www.benfolks.com) • [www.linkedin.com/in/benjamin-folks-595b7139](https://www.linkedin.com/in/benjamin-folks-595b7139) • <https://github.com/bfolks2>

---

### 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**.

---

### Professional Experience

#### Astra • Alameda, CA • September 2019 – Present

*Aerospace manufacturer and launch service provider developing high performance orbital vehicles*

##### Software Engineer

- Develop data-driven system for managing the assembly procedures of each launch vehicle
  - Process and visualize Manufacturing ERP system data using PostgreSQL and Grafana/Domo
- 

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

*Start-up website for users to watch and rate advertisements ([adthrill-prod.herokuapp.com](http://adthrill-prod.herokuapp.com))*

##### Technical Lead

- 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
- 

#### 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
  - Set up new architectures to centralize business logic and maintain clear domain layers
  - Build Django/DRF API endpoints allowing authenticated clients to access read/write operations
  - Manage scheduled and on-demand asynchronous Python tasks using Celery
- 

#### 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 35+ aerospace/US gov't clients to oversee technical projects and trainings
- 

### 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++	●●●●●○○○
<u>Design Tools (CAD):</u>			
ESPRIT CAD/CAM	●●●●●●●○	SolidWorks 3D CAD	●●●●●○○○

---

### Education

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

**FAA Certified Private Pilot - Instrument Rating**