

## BENJAMIN FOLKS

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

1143 W Wrightwood Ave #1F, Chicago, IL 60614

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

---

### AEROSPACE-SOFTWARE ENGINEER

Multi-faceted engineer with experience working on project teams in numerous fast-paced environments. Aims to combine Aerospace Engineering Degree, software development experience gained in professional environments, and real-world aviation experience as an **FAA Certified Instrument-Rated Pilot**.

---

### TECHNICAL SKILLS

- Python
  - Django
    - Direct knowledge and understanding of avionics functionality onboard general aviation aircraft
      - Aspen glass panel Primary Flight Display (Attitude Indicator, Heading Indicator, etc.)
      - Navigation systems equipped with Dual VOR's, CDI, DME, and GPS (Garmin GTN 650)
  - JavaScript/Ember.js
  - HTML/CSS
  - VB.NET/VBA
  - SolidWorks 3D CAD
- 

### WORK EXPERIENCE

#### RedShelf • Chicago, IL • January 2018 – Present

*Web development company providing digital content for educational institutions*

##### Full-Stack Software Engineer

- Work on a small development team to address product-driven enhancements/tickets while simultaneously building out entirely new business-driven applications
  - Created new application utilizing Django-Rest-Framework and Ember.js
    - Built REST API's to handle CRUD methods, as well as other custom operations, utilized by the front-end Ember application and back-end services
    - Service-based encapsulation for all Python objects, where API Logic Managers are used for all cross-service related queries
  - Constructed unit, integration, and acceptance (Selenium) tests, completing an initiative to increase coverage across the code-base to over 90%
  - Collaborated with development teams in an Agile Environment, using SCRUM methodology
- 

#### 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))*

##### Lead Python Engineer

- Rebuilt model structure within the Python/Django application in order to successfully utilize the Django ORM in creating a user-business search algorithm
  - Deployed the first build of the site for use in live production
- 

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

*Developer and supplier of computer-aided manufacturing (CAM) software.*

##### Senior Applications Engineer

- Create technical designs and generate manufacturing processes for concurrent OEM projects
  - Build SolidWorks CAD assemblies of dynamic machine models utilized for digital part verification
  - Determine processes and tooling necessary for manufacturing customer turn-key parts, in order to produce time studies and/or fully functional programs
  - Plan and create VB.NET/VBA applications within the software API for automating machining processes
  - Travel onsite to aerospace and US government clients to oversee technical projects, including NASA Glenn, Woodward Inc, Northstar Aerospace, Tinker AFB
- 

### EDUCATION

**Bachelor of Science in Aerospace Engineering**

**UNIVERSITY OF ILLINOIS • Urbana-Champaign, IL • 2011**

**FAA Certified Private Pilot - Instrument Rating**

**Certified SolidWorks Mechanical Design Professional**