Hannah Lily Watsky

Full Stack Software Engineer
Herndon, VA | hannahlilyw.github.io | hannahlily24@gmail.com | (410) 213-1731

Work Experience

Software Engineer | Consulting | June 2019 - Present

- Designed, implemented, and maintained several sleek and modern web apps using primarily Angular
- Designed, implemented, and maintained multiple back-end microservices using primarily Python, Django REST Framework, and Flask
- Used modern CI/CD and DevOps tools such as GitLab, Foreman, Puppet, Open Build Service, and Jenkins
- Gave regular product demos internally and to customers
- Started as an intern in 2019; assisted and mentored interns in 2020 and 2021; managed, developed curriculum, and led the 2022 intern program

Laboratory Teaching Fellow | University of Maryland | August 2018 - May 2020

- Guided hundreds of students in designing, building, and programming over-sand vehicles that autonomously navigate to a mission site, using onboard arduinos which communicate with a computer vision system to get location data
- Maintained a computer vision system in JavaScript and C++ which detects vehicle locations using OpenCV, exposes an API to communicate with onboard arduinos, and streams real-time video of the arena on the web
- Developed and maintained an online simulator in JavaScript, Python and C which lets students simulate the effects of Arduino navigation code on the arena
- Gave regular lectures introducing the computer vision system, simulator, and various programming concepts

Electrical Engineering Intern | Advanced Geolocation Solutions | Summer 2018

- Used Matlab to analyze hundreds of gigabytes of raw radio-frequency data
- Organized results of analysis in an Excel spreadsheet and PowerPoint

Electrical Engineering Intern | Hardwire | Summer 2017

- Developed a computer vision system that detects defects in material on a production line

Education

M.S. Software Engineering | George Mason University | August 2021 - December 2023 (Expected)

- Current GPA: 4.0
- Selected Coursework
  - SWE 619: Object-Oriented Software Specification and Construction
  - SWE 632: User Interface Design and Development

B.S. Electrical Engineering | University of Maryland, College Park | August 2016 - December 2020

- GPA: 3.495
- Specialization: Computer Engineering
- Project Chair for IEEE Student Chapter

Skills

- **Front-end Development:** Angular, TypeScript, SCSS, HTML, JavaScript, CSS, Jinja, AngularJS, Pug
- **Back-end Development:** Python, Django REST Framework, Flask, PostgreSQL
- **Operating Systems:** CentOS 7 Linux, Windows 10
- **Communication:** Writing, Presenting, Peer Review, Mentoring, Teaching