

# Weston Bushyeager

Software Engineer

## WORK EXPERIENCE

### Gecko Robotics, Pittsburgh, PA

*Mid-size technology startup with 200+ employees and \$30m+ annual revenue*

#### Forward Deployed Software Engineer

01/2022 – Present

- Awarded second place and a \$50,000 prize at a Navy competition on a two-man team utilizing my bespoke react application with a Python Flask backend.
- Developed a 3D app using React-Three-Fiber and Three.js to create digital twins for various assets, integrating inspection data with 3D models and skillfully manipulating the models in Blender for use in the custom application.
- Utilizing my Python localization project and a survey-grade laser tracker, we could inspect never-before-possible assets with unprecedented accuracy.
- Developed a Python Dash App to predict as-built nominals from ultrasonic data, enabling the normalization of metal wastage heatmaps in instances of sporadic and randomly placed material nominal thicknesses.
- Headed customer deliverables and inspections for over \$1M worth of Navy contracts

#### Field Engineer

03/2020 – 12/2022

- Developed a proof-of-concept robotic system for laser profilometry surface scanning by integrating off-the-shelf components and developed PyQt software to allow real-time scanning and analysis.
- Distinguished as a versatile engineer in the company, proficient in conducting ultrasonic inspections and troubleshooting all robotic systems.
- Authored comprehensive Standard Operating Procedure (SOP) documents for one of Gecko's highly specialized robotic platforms.
- Developed cloud functions utilizing AWS Lambda and Python, automating the process of generating tickets for field-reported robot issues.

### Profrac Services, Smithfield, PA

*Hydraulic fracturing service provider*

#### Field Engineer

01/2019 – 03/2020

- Successfully completed over \$15,000,000 worth of services with no issues or downtime on my part as the only frac field engineer on location

## PROJECTS

### Surefirebetting.com

*The first sports betting arbitrage service tailored for the U.S. market, attracting a peak of 20 paying monthly subscribers.*

#### Founder

11/2020 – 12/2021

- Implemented cloud-run functions, the Python Scrapy framework, and a MySQL database to automate the data collection process and refresh arbitrage opportunities every three minutes.
- Successfully marketed the service with Facebook ads and Reddit posts.

## PREVIOUS EXPERIENCE

### Wireline Operator, Nine Energy Service, Washington, PA

05/2018 – 12/2018

## CONTACT

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## SKILLS

### Programming Languages:

- Python (7 years)
- Typescript (2 years)
- HTML / CSS (2 years)

### Libraries:

- Three.js (1 year)
- React (2 years)

### Frameworks:

- Dash (1 year)

### Databases:

- DynamoDB (1 year)
- MySQL (3 years)

### Tools and Software:

- Git (5 years)
- Figma (1 year)
- Blender (1 year)
- Jira (3 years)

## EDUCATION

### The Pennsylvania State University

Bachelor of Science  
Petroleum & Natural Gas  
Engineering  
State College, PA  
05/2014 - 05/2018