

# Drew Scatterday

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## Skills

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**Languages:** Python, C#, TypeScript, C++  
**Frameworks:** PyTorch, FastAPI, React, ASP.NET Core  
**Tools:** Git, Docker, Digital Ocean, AWS EC2/Polly

## Experience

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**Data Science Consultant**, Esri – San Diego, CA Oct 2021 – Present

- Developed server to poll 300 IoT field devices every minute, enabling New Jersey DOT to visualize sensor data in real-time and improve traffic management
- Deployed custom tool to process five years of crash data, aiding Oakland DOT in identifying high-injury road networks for targeted safety improvements
- Implemented image processing tool for US National Ice Center, streamlining the analysis of 500 satellite images, reducing daily manual inspection time
- Trained deep learning model on 30,000 panoramic images and point cloud data, aiding Meta in improving security measures and updating their building assets database
- Streamlined Azure server setup by automating a 30-minute manual process, increasing team productivity by reducing time spent on development server configuration
- Conducted exploratory data analysis on 100,000 rows of lake sensor data, supporting the creation of a deep learning model for predicting algae blooms on Lake Okeechobee

**Data Science Intern**, Esri – Morgantown, WV May 2021 - Aug 2021

- Implemented deep learning model for ice segment detection in satellite imagery, achieving 70% intersection over union improving the US National Ice Center's manual labeling process for maritime navigation

**Software Engineer Intern**, syGlass – Morgantown, WV Oct 2019 - May 2021

- Streamlined AWS server management by reducing setup time from 30 minutes to 1 minute, leading to more efficient multiplayer server deployments
- Improved the VR folder system to streamline project file management and increase user accessibility
- Developed a feature for Python API to export 3D raster data to NumPy, streamlining data transfer
- Integrated open source deep learning model Star Dist into syGlass, enabling automated 3D cell detection

**Software Engineer Intern**, NASA – Fairmont, WV May 2018 - Aug 2018

- Automated flight software file generation from 45 minutes to 1 minute, greatly increasing testing efficiency

## Projects

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**TradingLab** Python, C++, AWS tradinglab.ai

- Created license management system that handled \$20,000 monthly by integrating with Chargebee API

**DiscordTTSBot** JavaScript, AWS [github.com/drewscatterday/DiscordTTSBot](https://github.com/drewscatterday/DiscordTTSBot)

- Developed a text-to-speech bot utilized in 2,400+ servers that processed 10 million characters monthly

## Education

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**West Virginia University** – BS in Computer Science, Minor in Mathematics May 2021