

Bryan Weissinger

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Education

B.S. in Computer Science

Expected: December 2023

Western Governors University

B.S. in Math, Minor in Natural Science

Expected: December 2023

Oklahoma Panhandle State University

- 3.5 gpa – 129 Credit Hours (15 remaining), Dean's and President's honor rolls
- Additional engineering classwork including Statics, Dynamics, Thermodynamics, Materials and Manufacturing Processes, Physics, Astrophysics, and Electromechanical systems
- Activities: Student Radio, Formula SAE, Rocket Team

Experience

Software Engineering Intern

August 2023 - Present

NASA

Washington, DC (Remote)

- Selected to work with the Office of Data Analytics
- Building pipelines and infrastructure to facilitate fraud analysis by ODA's Audit Insight Team

Software Development Consultant

April 2023 – July 2023

Discovery Lab

Tulsa, OK

- Returned to service an exhibit that had been non-operational for over a year
- Advised exhibit staff on technology for a new animatronic exhibit
- Developed C++ software for an Arduino to handle multiple serial based RFID readers simultaneously while communicating to a Raspberry Pi
- Used Python/C++ to smoothly render video at a variable frame rate up to 60fps, both forwards and backwards, on a Raspberry Pi 4 controlled via a rotary encoder
- Developed a keyframe based animation system allowing museum staff to specify servo movements for numerous servos simultaneously

Software Engineering Intern

June 2021 – July 2021

Pacific Northwest National Lab

Richland, WA (Remote)

- Used Unity, Mapbox, and AR Core framework to develop an Augmented Reality application enhancing war fighter navigation in hazardous environments
- Selected by team to lead Mapbox integration and development
- Produced well-received presentations for Department of Defense sponsors and PNNL mentors

Projects (github.com/bweissinger)

Jwstascii.com – Website and Scraper | Python, BeautifulSoup, AWS, CircleCI, Github Actions

- A website with thousands of monthly page views showcasing astronomy images, from the James Webb Space Telescope, converted to ASCII art
- Utilized AWS Lambda function triggered daily by EventBridge to retrieve base images from webbtelescope.org, and convert them to ASCII art before pushing to an S3 bucket
- Implemented CI/CD pipeline with CircleCI and Github actions