

Chris Varanese

Software Engineer

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Skills

Languages Python, C, SQL, C++, Java, \LaTeX

Tools Git, Pandas, Postgres, Keras, Linux, Docker, REST

Experience

2019 – **Design Engineer**, *Stellar Exploration*.

- Processed large amounts of test data using python with Pandas and Numpy into clear visualizations to show the results of tests
- Designed and implemented internally hosted PostgreSQL database server to store all collected data, decreasing the time required for all workers to view and process test results
- Designed and maintained test modules using python to control a propulsion test stand while collecting system data in real time
- Developed an embedded propulsion controller from scratch to be launched into lunar orbit
- Delivered class to train coworkers on basics of python and data processing to increase general office productivity

Summer 2018 **Software Engineering Intern**, *Optum*.

- Designed and tested continuous deployment systems using Jenkins and Git to cut deployment time in half
- Competed in company-wide hackathon, developing a tool to generate medical codes from written situation reports

2018 – 2019 **Computer Science Tutor**, *California Polytechnic State University - San Luis Obispo*.

- Aided students looking for help with Computer Science classes to improve their understanding of the material

2017 - 2018 **Software Team Lead**, *Cal Poly PROVE Lab*.

- Designed computer vision algorithm for semi-autonomous record breaking electric car
- Build to-scale car test-bed to measure performance of individual mechanical system

Projects

Super Smash bros. Melee AI

🔗 <https://cvaranese.github.io>.

- Created and implemented two reinforcement learning neural networks to learn to play the game Super Smash Bros. Melee

End to End Steering

🔗 <https://cvaranese.github.io>.

- Trained 2D Convolutional Neural Network to predict car steering angles for an NVidia Jetson on a line following RC car

Education

2015–2019 **Computer Science**, *California Polytechnic State University*, San Luis Obispo.

- Mathematics Minor
- 3.60 Major GPA