GARRETT THOMPSON

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github.com/Gleland

Master of Physics graduate with computer programming experience seeking research or data science roles.

EDUCATION

Northern Arizona University   *May 2017*
M.S. in Applied Physics   GPA: 4.0

California State University, Sacramento   *May 2015*
B.S. in Physics, minor in Mathematics   GPA: 3.3
Certificates: Scientific Instrumentation Development, Scientific Computation and Simulation

EXPERIENCE

Exploring the Methane-Ethane Eutectic System   January 2016 - May 2017
Lowell Observatory/Northern Arizona University   *Flagstaff, AZ*

· Studied visible and near-infrared spectral properties of hydrocarbons in a cryogenic setting.
· Performed experiments in high vacuum and at temperatures as low as 30 Kelvin.
· Created a Python program to reduce and analyze collected spectra.
· Identified trends among samples based on temperature and composition.
· Presented results at the Division of Planetary Science Conference and Flagstaff Astronomy Symposium.

Lab Instructor   August 2015 - May 2017
Northern Arizona University   *Flagstaff, AZ*

· Taught physics labs to approximately 75 students per week, focusing on introductory mechanics and mathematics.
· Volunteered extra study sessions before midterms and final exams, and held private tutor sessions for additional help.

Implementing an Alternative to the Standard Homework Model   June 2014 - August 2014
California State University, Sacramento   *Sacramento, CA*

· Created a website for physics students to eliminate the need for commercial homework software.
· Utilized Python, Javascript, HTML, and SQL to build the platform's backend.
· Presented results at the Provost's Student Research Showcase.

TECHNICAL STRENGTHS

Computer Languages	Python, Bash, C++, LabVIEW, Mathematica, MATLAB
Tools	Vim/Neovim, LaTeX, Git
Systems	Unix, Linux, macOS

AWARDS/HONORS

$\Sigma\Pi\Sigma$ member (Honors physics fraternity)

Dean's Honor List (>3.0 GPA, CSUS)

James Clerk Maxwell Achievement Award (>3.0 physics GPA, CSUS)

Royal Vanderberg Scholarship (>3.0 physics GPA as Junior or Senior, CSUS)