

NICHOLAS SHEA, EIT

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SKILLS AND EXPERTISE:

Over 3 years' experience scripting and application development in Python.

Over 4 years' experience writing and debugging complex SQL queries, bash scripting.

Experience developing and evaluating machine learning models using Python data science stack (numpy, pandas, scikit-learn, matplotlib, Jupyter notebooks)

Experience with Docker/Kitematic, AWS, GCP, Heroku, cloud architecture.

Engineer-in-Training: Passed NCEES Fundamentals of Engineering exam

WORK EXPERIENCE:

Applications Engineer, Modular Mining Systems, Tucson AZ.

Position held November 2017 to February 2019.

I served as a technical contact for Modular's clients, including several oil supermajors. My responsibilities included administering client SQL Server databases and production reporting, and providing data-driven recommendations to our clients. I was also responsible for software troubleshooting, bug reporting, acceptance testing, software update projects, user training, and requirements gathering for new software features.

Development Intern, Catalyst Development Group, Tucson AZ.

Position held May 2017 to November 2017.

I worked as a full stack web developer integrating Zoho CRM with various third-party APIs and building web applications. I took on a broad set of responsibilities including design, development, configuration and cloud deployment, technical support, and reporting. Projects included a production tracking application for a quarrying operation.

Teaching Assistant, DILAB (Design and Intelligence Lab), Georgia Institute of Technology, Remote.

Position held January 2017 to May 2017.

I graded student assignments and assisted in preparation and presentation of course materials, including an interactive electronic text with code examples in Python. I assisted instructors in addressing student questions and troubleshooting technical problems.

DTM Production Team, HiRISE, University of Arizona, Tucson AZ.

Position held May 2014 to May 2016.

I used HiRISE (High Resolution Imaging Science Experiment) stereo pairs to extract elevation data and produce digital terrain models of Mars, assisted by the Socet Set software suite and high-performance computing resources. I used and maintained a library of Python and shell scripts to automate DTM production.

EDUCATION:

University of Arizona, Tucson, AZ. BS (Honors) in Mining and Geological Engineering, (2012-2016). Minors in Aerospace Engineering and Mathematics. Recipient of University of Arizona National Merit Scholarship. Member, Arizona Alpha chapter of Tau Beta Pi (engineering senior honor society). Coursework included analysis, linear algebra, multivariable calculus, probability and statistics, geostatistics, exploration geophysics, geomechanics, geosensing, mineralogy and petrology, and physical and structural geology.

Georgia Institute of Technology, Atlanta, GA. Master of Science in Computer Science (2016-2018). Specialization in Interactive Intelligence. Coursework included software development and testing, databases and SQL, and AI/machine learning. Performed project work in Python, Java, SQL, and JavaScript.