

# MICHAEL MUNJE

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## SKILLS

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**Languages:** Python, C/C++, c, Bash, L<sup>A</sup>T<sub>E</sub>X, R, Docker, SQL  
**Libraries:** Scikit-Learn, PyTorch, NumPy, Pandas, Matplotlib, Keras  
**Interests:** Machine Learning, Optimization, Reinforcement Learning, Meta Learning

## EDUCATION

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**Georgia Institute of Technology** Expected: May 2022  
*M.S. in Computer Science*

Selected Coursework: Regression Analysis, Graduate Algorithms.

**California State University Northridge** May 2019  
*B.S. in Computer Science*

Selected Coursework: Machine Learning, Algorithms, Numerical Analysis, Data Mining, Statistical Inference.

## WORK EXPERIENCE

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**Microsoft** June 2020 - Current  
*Software Engineer Intern*

Implementing black-box optimization algorithms used to find optimal hyperparameters for combinatorial structures used within a counterfactual platform used to simulate global ad auctions.

**NASA Jet Propulsion Laboratory** Oct. 2019 - June 2020  
*Data Science Intern*

Deployed fresh craters detection pipeline across 99% of Mars with candidate extraction algorithm using spatial and temporal linking. Utilized weak supervision and trained classifiers to filter orbital imagery.

**California State University Northridge** June 2018 - Dec. 2019  
*Research Assistant*

Contributed to three research projects: machine learning to predict chemical properties of ionic liquids; time-series regression analysis for vehicle tracking; a programming language for hierarchical state machines.

**Northrop Grumman** June 2019 - Aug. 2019  
*Software Engineer Intern*

Developed machine learning and data science tools, implemented docker containerization for software suite, and added core functionalities to software systems.

**California State University Northridge** Aug 2018 - Aug. 2019  
*Teaching Assistant*

Data Science Summer Camp 2019, Introduction to Algorithms, Algorithm Design and Analysis, AIMS<sup>2</sup> program.

**Systems Engineering Research Laboratory** Dec. 2017 - Jan. 2019  
*Research Assistant*

Developed simulation of search and rescue environment and implemented experiment design. Collaborated with multidisciplinary team to research the effects of increasingly autonomous drones.

**Tufts University** June 2018 - Aug. 2018  
*Research Intern*

Researched computational models for variants of shortest path problems specific to gerrymandering. Contributed to research paper by writing an NP-Complete proof along with other proofs and pseudo-code.

## AWARDS

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**Scholarships:** California Predoctoral Program, Southern California Edison Scholarship, Pearl Simmons Scholarship Endowment, Barry E. Nelson Memorial Endowed Scholarship in Computer Science