# Myles McLeroy

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## EDUCATION

**The University of Alabama** Tuscaloosa, AL
**Master of Science in Computer Science** August 2019—May 2021
**Bachelor of Science in Computer Science and Mathematics** August 2017—May 2021
**Minor:** Randall Research Scholars Program (Undergraduate Research)
**GPA:** 3.94/4.00
**Coursework:** Data Structures & Algorithms, Software Engineering & Design, Operating Systems, Databases, Honors Multivariable Calculus, Linear Algebra, Theory of Probability, Statistical Data Analysis, Coursera Machine Learning and Deep Learning Specialization

## SKILLS

**Programming Languages:** Python, SQL, C#, C++, C, Java, JavaScript, MATLAB, Fortran
**Libraries/Frameworks:** TensorFlow, PyTorch, Keras, fastai, Scikit-Learn, Pandas, NumPy
**Tools/Technologies:** Git, Docker, Amazon Web Services, Google Cloud, Windows Server, Hyper-V Manager

## EXPERIENCE

**Google** Sunnyvale, CA
*Engineering Practicum Intern* May 2019—August 2019
- Reduced resource consumption for Greentea (Google's CRM) by 15% per month saving billions of processor seconds per year
- Utilized modern C++ to implement a new cache recommendation system; Used Python and SQL to analyze and visualize data
- Managed project through entire lifecycle including requirements research, design docs, presentations, unit tests, and code reviews

**Digital Forensics and Control Systems Security Lab** Tuscaloosa, AL
*Research Assistant* May 2018—present
- Created a Google Maps web application used by 30+ engineers and researchers in the Alabama Transportation Institute
- Modernized previous work in vehicle crash recognition by utilizing YOLOv3 and reproducing Caffe2 models in TensorFlow
- Published 3 scientific papers within a year; presented papers at international research conference in Las Vegas, NV

**Randall Research Scholars Program** Tuscaloosa, AL
*Lab Manager* January 2018—present
- Administer 3 Linux servers and 6,000+ user accounts in the only student-run computer lab at the University of Alabama
- Manage 7 hypervisors, 40+ virtual machines, and 30+ computers using Windows Server, Active Directory, and Hyper-V
- Act as a liaison between faculty and students and represent the Randall Research Scholars Program at recruiting events

**Bentley Systems** Huntsville, AL
*Software Engineering Intern* May 2017—August 2017
- Used C++ and SQL to develop AssetWise ASIM asset information storage feature and Google Test framework to create unit tests
- Created a logical testing and reporting strategy on Team Foundation Server to log new software defects and improve tester efficiency
- Adopted Agile methodologies to collaborate with a Senior Software Engineer and 2 other interns for a summer-long software project

## PUBLICATIONS

**Developing a Web-Based Software Suite for Transportation and Traffic Analysis Using Google Maps** Las Vegas, NV
*SERP'19: The 17th International Conference on Software Engineering Research and Practice* July 2019
Myles McLeroy, Ben Hallihan, Blake Wright, Travis Atkison

**Using Isochrones to Examine NICU Availability in Rural Alabama** Las Vegas, NV
*HIMS'19: The 5th International Conference on Health Informatics and Medical Systems* July 2019
Ben Hallihan, Myles McLeroy, Blake Wright, Travis Atkison

**Vehicle Crashes: Early Detection Through Image Recognition** Las Vegas, NV
*IPCV'19: The 23rd International Conference on Image Processing, Computer Vision, & Pattern Recognition* July 2019
Laura Malis, Abigail Payne, Myles McLeroy, Travis Atkison

## AWARDS & HONORS

- Bayham Family Endowed Scholarship for Academic Achievement, Leadership, and Personal Integrity
- 1st place: Engineering, Transportation, & Energy, UA Undergraduate Research & Creative Activity Conference
- 1st place: Computer Science, MIS, Cybersecurity, & Statistics, UA Undergraduate Research & Creative Activity Conference
- Darren Evans-Young Most Outstanding Randall Research Scholars Program Freshman