Myles McLeroy

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EDUCATION

The University of Alabama Tuscaloosa, AL
Bachelor of Science in Computer Science August 2017—May 2021
Minor: Randall Research Scholars Program (Undergraduate Research)
GPA: 3.70/4.00
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 Specializations

SKILLS

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

EXPERIENCE

Uber San Francisco, CA
Incoming Software Engineering Intern May 2020—August 2020

Google Sunnyvale, CA
Software Engineering 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
- Developed a Google Maps web application used by 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 labs at the University of Alabama
- Manage 7 servers, 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

Osher Lifelong Learning Institute Tuscaloosa, AL
Web Developer January 2018—July 2018
- Developed an event registration website using C# ASP.NET, JavaScript, SQL, HTML, and CSS
- Refactored codebase using a database-first approach to condense the number of MVC classes from 70 to 30
- Utilized advanced Git for source control such as git-bisect to identify and resolve three-way merge conflicts

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