

Clay McLeod

CONTACT INFORMATION

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Technical Blog: blog.claymcleod.io

RESEARCH INTERESTS

Application of machine learning to challenging problems.

EDUCATION

University of Mississippi, University, MS

M. S. Computer Science

May 2016

- Master's GPA - 4.0/4.0
- Financed my college education through assistantships and scholarships.
- **Thesis:** "*The Effect of Hyperparameters in the Activation Layers of Deep Neural Networks.*"

B. S. Electrical Engineering (emphasis in Computer Engineering)

May 2014

- Major GPA - 3.81/4.0, Overall GPA - 3.66/4.0
- Graduate of the Sally McDonald Barksdale Honors College
- **Thesis:** "*Biometric Authentication, Dynamic Feature Extraction, and User Classification using TouchAnalytics*"

PROFESSIONAL EXPERIENCE

FedEx Services - Memphis, TN
Software Analyst Intern

Summer 2015

- Built a native, internal mobile application for iOS (Swift) and Android (Java).
- Created a scalable backend server with NodeJS, ExpressJS, and MongoDB.
- Created a proprietary machine learning server/path optimization server written in Python with open-source tools such as scikit-learn and pandas.
- Recipient of the FedEx Technical Mastery award (x2) and the Director's Choice Award for best project. Employee choice award for 2015 best intern project.

Cooper-McLeod Technology, LLC - Memphis, TN
Co-Founder and Vice President

January 2015 - Present

- Sole electrical and software engineer for a company focused on providing technological innovation to the construction industry.
- Complete native mobile app on iPhone (Swift), website and server written on the MEAN stack (MongoDB, ExpressJS, AngularJS, NodeJS).
- Created proprietary microelectronic device to compliment software solution.

University of Mississippi - University, MS
Head Teacher's Assistant

Fall 2014 - Present

- Full time assistantship that financed Master's degree.
- Hired and managed 30 teacher's assistants. Coordinated lab times programming classes.
- Managed 400 student's lab grades throughout the year.

Research Assistant (Biometric security)

October 2013 - Present

- Developed a new kind of biometric authentication system for mobile security using machine learning, exponentially decreasing the likelihood of a successful attack on the system.
- Currently pursuing patent for this software.

Research Assistant (Facial Recognition)

Spring 2011 - Fall 2012

- Researched and wrote platform independent facial recognition software.
- Skills learned include proficiency in the C and JavaScript languages, knowledge of the WebGL pipeline, and specialized implementation of the OpenGL Shading Language.

Logistical Systems, LLC. - Memphis, TN
Electrical Engineering Intern

Summer 2014

- Fabricated multiple electrical control panels for a wide range of applications.
- Assisted engineers with control automation design in AutoCAD.

RELEVANT SKILLS

Machine Learning, Data Mining, High Performance Computing, Data Science, Statistical Modeling, Artificial Intelligence, Python 2/3, R, NodeJS, Java, Javascript, C++, C#, C, MEAN stack, Web Development, iOS/Android Development.

HONORS AND AWARDS

- University-related
 - Full-time Graduate Assistantship
 - Adler Engineering Scholarship (4x)
 - Academic Excellence Scholarship (4x)
 - Chancellor's Honor Roll (4x)
 - Graduated Cum Laude (undergraduate)
 - Sally McDonald Barksdale Honors College graduate
 - Upsilon Pi Epsilon (Computer Science Honor Society)
 - Pi Mu Epsilon (Mathematics Honor Society)
 - Gamma Beta Phi (National Academic Honor Society)
 - Sigma Alpha Lambda (National Academic Honor Society)
 - National Society for Collegiate Scholars
- Career-related
 - Scored in top 5% of all data scientists tested for Correlation-One's standardized Machine Learning assessment
 - FedEx Technical Mastery award (x2)
 - FedEx Director's Choice Award for best project
 - FedEx Employee choice award for 2015 best intern project
- Miscellaneous
 - Featured writer on www.kdnuggets.com (popular datascience blog)
 - Biometric security thesis featured in Ole Miss Engineering magazine ([link](#))
 - Alpha Tau Omega Philanthropy Chairman, Alumni Relations, Leadership, Scholarship, and Membership Education Committees
 - Voted top 5 fraternity leaders