

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

St. Jude Children's Research Hospital - Memphis, TN

Senior Software Engineer

June 2016 - Present

- Technical lead for the "St. Jude Cloud" project, a corporate-wide initiative dedicated to making St. Jude's data and tools available to the world.
- Created analysis pipelines for next generation sequencing (NGS) data that is used in clinical and research environments on St. Jude's HPC environment.
- Evaluate and developed data science techniques to a variety of genomic analysis problems (GWAS, MCMC, Deep Learning, Artificial Intelligence).

Curtsy, Inc. - Palo Alto, CA (remote)

Software Consultant

May 2017 - August 2017

- Consultant for both mobile development (iOS) and server-side development (NodeJS).
- Established infrastructure for the company in AWS (previously non-existent).
- Funded by Y Combinator, one of the country's top startup incubators.

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

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).

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.
- 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.

RELEVANT SKILLS Machine Learning, Data Mining, High Performance Computing, Data Science, Statistical Modeling, Artificial Intelligence, Containerization (Docker, Vagrant), 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