Clay McLeod

CONTACT
INFORMATION

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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 then 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).
- Project management experience coordinating St. Jude staff for the St. Jude Cloud project starting February 2017.

Curtsy, Inc. - Palo Alto, CA (remote)
Software Consultant **Jan 2016 - May 2016**
- 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
Teacher's Assistant/Head Teacher's Assistant **Fall 2014 - Spring 2016**
- 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 **Fall 2013 - Spring 2014**
- 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	Cloud Comptuting, Data Mining, Machine Learning, High Performance Computing, Data Science, Statistical Modeling, Artificial Intelligence, Containerization (Docker, Vagrant), Web Development, iOS/Android Development.
PROGRAMMING LANGUAGES	Python 2/3, R, C++, NodeJS, Java, Javascript, C, Golang, Rust, PERL.

HONORS AND AWARDS

- Career-related
  - St. Jude gold ovation award winner (2x)
  - 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
- 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
- Miscellaneous
  - Featured writer on www.kdnuggets.com (popular data science 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