

# Loren Klingman

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## PROFILE:

Detail oriented software developer who loves translating the big picture into code. I love hearing from users of tools I helped create.

Skilled in working with the full stack of software delivery including system architecture, SQL, Spring Boot, React, Node.js, PHP, Angular, and services on GCP/AWS.

## SKILLS:

GCP Certified Cloud Architect	MySQL, SQL Server	Jenkins Continuous Integration
Java (Springboot)	React, AngularJS, jQuery	Elasticsearch
Node.js	HTML5, SCSS, CSS, JS	Amazon Web Services
PHP (Laravel, Yii Framework)	Git, GitFlow	Python

## EXPERIENCE (PAID):

**The Home Depot**, Atlanta, Georgia January 2018-Present

*Team Anchor (Springboot, React, Node.js, GCP, Jenkins); Consultant (Slalom) converted to staff*

- Facilitate inter-team architecture discussions such as matching inbound product to delivery orders
- Lead the Inbound Team and the Location and User Access Team including all code reviews
- Built the base of the permission system, and authorization for users with Spring Boot
- Developed parts of the simulation app which sets up data for our e2e tests
- Solved problems creating flakey e2e tests in Selenium and CodeceptJS
- Work with PM and UX to ensure stories are ready for IPM

**Georgia Tech**, Atlanta, Georgia August 2016-December 2017

*Research Team Member (Java)*

- Architect a system using Google BigQuery and the GitHub API to obtain and analyze maven dependencies for over 100,000 repositories
- Architect and develop a system to analyze code changes made when upgrading maven dependencies
- Develop a system to automatically generate test cases for changed Java classes in pull requests and create a prioritized report of potential regression errors

**Duke TIP @ Georgia Tech**, Atlanta, Georgia June-July 2017

*Instructor, Artificial Intelligence (Python)*

- Design a course to teach rising 9<sup>th</sup> – 11<sup>th</sup> grade students about AI using exercises in Python
- Teach two 3-week summer sessions with 19-20 students each

**The Southern Baptist Theological Seminary**, Louisville, KY July 2014-August 2016

*Manager of Data and Analytics (PHP, Laravel, AngularJS, SQL Server, AWS, Elasticsearch, Jenkins)*

- Work with end-users to determine needs and implement their requested features
- Architect solutions for joining and caching data between various internal and external systems
- Create automated scripts to correct data inconsistencies and sync data between systems
- Implement continuous delivery using Jenkins and software validation tools
- Design and implement an Elasticsearch datastore and EC2 gateway for iPhone app content delivery

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**International Nonprofit**, Richmond, VA, Working in Thailand July 2011-July 2013

*Web Programmer (PHP, MySQL, Bootstrap, jQuery)*

- Design and implement custom content management systems using PHP and Expression Engine for 7 affinity and 4 story websites given user requirements
- Work remotely with designers to implement their designs as responsive templates

**TigerPaw Productions**, Clemson University, Clemson, South Carolina December 2008-June 2011

*Director of Technology Development (PHP, Yii, jQuery)*

- Architect and support an event and employee management system for over 1,000 crew calls per year, 500 employees, and 250 events per year
- Supervise two employees assisting support the system
- Implement a second instance of the system to support crew calls for night security and transportation

## EXPERIENCE (UNPAID ACADEMIC RESEARCH):

**Diagnostic Research**, Clemson University, Clemson, South Carolina August 2013-May 2014

*Research Team Member (R, MySQL, Shiny Server)*

- Analyze large amounts of diagnostic data to discover the root cause of system failures
- Create a system to allow exploratory analysis of the data of possible failure causes

**Creative Inquiry in Tablet PCs**, Clemson University, Clemson, South Carolina August 2008-May 2011

*Research and Programming Member, Honors Research Project (PHP, MySQL)*

- Work in multiyear, cross-disciplinary project with the School of Nursing
- Architect and build software to aid nursing students in learning to use electronic health records which was used in introductory nursing classes
- Research methods to teach people to use new software through a familiar environment

## OTHER EXPERIENCE (PAID):

**TigerPaw Productions**, Clemson University, Clemson, South Carolina August 2008-May 2009

*Associate Production Director for Tillman Auditorium*

- Develop and implement a training program for 30 employees
- Manage scheduling and payroll for about 260 events
- Lead a team comprised of sound and lighting engineers working with event planners

## EDUCATION:

Clemson University, Clemson, South Carolina August 2013 – May 2014

**Master of Science (Thesis), Computer Science** GPR 3.80/4.00

Clemson University, Clemson, South Carolina August 2007 - May 2011

**Bachelor of Science, Computer Science** GPR 3.97/4.00

## ACTIVITIES:

- Contribute to open source software: <https://github.com/loren138>
- Join the MARTA Hackathon: <https://github.com/loren138/martaOptimize> and <https://github.com/loren138/martaio>