

# BRIAN LUECK

SOFTWARE ARCHITECT / LEAD ENGINEER

## EXPERIENCE

### TRIMBLE

Coralville, IA  
2013 – present

### SENIOR SOFTWARE ENGINEER / ARCHITECT

Lead developer and architect in part of the Professional Services team. Our teams provide consulting services to a wide range portfolio of companies including John Deere, Peoplenet, Collins Aerospace, and FedEx.

My latest project known as **ELD Clearinghouse** which is a big data project that would take in multiple eld client data and transform it into a data API for consumption across platforms and products to allow truck delivery to have a seamless ELD compliance experience.

Other projects to highlight:

**Valkyrie:** An Over-The-Air-Programming system for over 300K mobile devices. This is a cloud based service running on a cluster of Node(js) instances and allows for batches of software updates to be processed by fleets of tablet devices used for driver hours recording (ELD).

**ELD Open Interface:** This API Gateway project focused on dotNet application servers providing data elements for future consumption with a data warehouse.

**eFleetSuite ELD:** This was an in-house mobile data application that utilized data from Truck/Tractor IEEE to track truck hours services. The project was a fast track development cycle that involved android and dot net implementations.

**Streaming Data (File Creator):** This was a John Deere project that utilized the Scala/Akka scaling platform for data storage of Kinesis steam map models of farm fields as part of the *MyJohnDeere* portal.

**Machine Data Cloud Migration:** As a key consultant to John Deere, I provided architecture design and development implementations for an AWS *Lift-n-Shift* project to take petabytes of data stored in-house and provide a path to scalable data warehousing in the cloud. This project used Kinesis/Snowball/Redshift to send data stores initially from DB2 into PostgresDB.

### GENERAL DYNAMICS

Coralville, IA  
2002 – 2013

### WEB SOFTWARE ENGINEER

Extensively developed software for the Department of Education's **Free Application for Federal Student Aid (FAFSA)** flagship project. This was a \$300M+ contract that consisted of a high volume processing web form. During my time on this project it evolved from a simple CGI scripted website into a large scale ibm/jsf front-end while maintaining a mainframe with db2 back-end.

## EDUCATION

### UNIVERSITY OF IOWA

Iowa City, IA  
1998 - 2002

### BACHELOR OF SCIENCE

Received degree in Computer Science. Also received a business school Certificate of Entrepreneurship.

## PROFESSIONAL TRAINING

May 2017

### AWS CERTIFIED SOLUTIONS ARCHITECT - ASSOCIATE CANDIDATE

Certification courses to advance technical skills and experience in designing distributed applications and systems on the AWS platform.

August 2016

### PROFESSIONAL SCRUM MASTER CERTIFICATION

This certifies my understanding of consistent terminology and approach to Scrum mastery and the concepts of applying Scrum.

## SOFTWARE

### LANGUAGE

scala, java8, es6, python3, .net(c#)

### DATA STORE

postgres, mongodb, h2, mysql, oracle, mssql, db2

### FRAMEWORKS

play, entity, spring,

### WEB

rest, jsf, ajax, webflow, less/css, angular, nginx

### AMAZON

s3, lambda, ec2, rds, dynamodb, elasticache, apigateway, kinesis, redshift, iam, vpc, route53, cloudformation, terraform, serverless

### BUILD

sbt, jenkins, maven, gradle, ant

### SOURCE

git, svn, cvs

### PLATFORMS

linux, windows, osx

### TEST

junit, selenium, mockito

### TRACKING

jira, rally, bugzilla

### MODELING

sketchup, uml, visio

## OTHER INTERESTS

Renovating a 122-year old Victorian home

Volunteering time with youth at school and church events

Performing music in jazz ensemble (sax & piano)