

# Lucas Gray

lucas.e.gray@gmail.com | <https://lucasegray.com>

(608) 751-2206 | 834 Ottawa Trl, Madison WI 53711

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## SPECIALIZATIONS

- Engineering leadership
- Full stack development
- Big data

## SPECIAL INTERESTS

- Games
- Mobile
- Mapping applications

## TECHNOLOGIES

### Javascript (16 yrs)

- Typescript
- React
- React-Native
- Node

### Databases

- Postgres
- Mysql
- Redis
- Firebase
- SQL Server

### Java Ecosystem (12 yrs)

- Java
- Kotlin
- Scala
- MVC Frameworks like Dropwizard, Scalatra
- Queuing systems like ActiveMQ, Jesque

### Big Data Ecosystem (3 yrs)

- Hadoop
- Hive
- MapReduce
- Spark
- Elasticsearch

### .Net Ecosystem (4 yrs)

- C#
  - ASP MVC
  - Entity Framework
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## EXPERIENCE

### Head of Engineering | Alloy

February 2022 - Present

React, Next.js, Typescript, Node, Postgres, Render PaaS

- Grew systems and processes as a player coach from launch to established company, carefully balancing realities of early stage constraints while keeping tech debt low
- Determined and implemented sprint processes, ticketing system, on-call rotation, QA automation, and grew the team from 2 to a dozen
- Created sophisticated backend system functionality – working cross functionally to navigate build vs buy decisions when necessary
- Wrote much of the early backend Typescript code, including
  - Implementing a simple yet effective webhook handling layer to allow ease of retries, troubleshooting, manual intervention
  - Created an in-memory isomorphic product configuration registry
  - A highly optimized CI/CD pipeline

Links: [Alloy](#), [Building Recurring Orders with Stripe Subscriptions](#), [Reducing Unit Test Runtime](#)

### Engineering Director | ExecVision

February 2020 - February 2022

### Product Engineering Manager | ExecVision

August 2018 - January 2020

React, Kotlin, Postgres, Elasticsearch, Linux, AWS

- Lead and organized work for a team of 8 remote product engineers
- Main contributor on several of ExecVision's differentiating product features including coaching and dashboards
- Worked closely with QA team to ensure product quality via feature flags, weekly deployments

Link: [ExecVision Charts](#), [Execvision Overview](#)

## **Software Development Manager | National Decision Support Company**

January 2017 - August 2018

.Net, C#, Entity Framework, AngularJS, SQL Server

- Lead a team of 5 full stack engineers, and mentor customer support engineers and software engineers in test
- Lead strategy and prioritization to ensure legacy code maintains correctness while paying down code debt and restructuring to enable the future of the product
- Facilitated brown bags, pull request reviews, ensure product direction lines up with technical needs, hiring and vetting

## **Lead Software Engineer | Beekeeper Data**

January 2015 - January 2017

Scala, Ember, Postgres, Heroku, MapReduce, Jesque

- Lead engineer for an early stage business intelligence startup, founded by the former head of analytics at Foursquare
- Main front end, back end, and devops developer for the product. Wrote and deployed Scala and Ember code. Built out an initially self-hosted web app, then augmented the app with multi-tenancy and hosted on Heroku.
- Built a Mongo to Hadoop ETL pipeline that would automatically “read” the Mongo schema and build Hive DML statements to create Hive schema, then insert Mongo data into HDFS
- Acted in a sales engineer role to guide adoption with customers
- Provided mentorship and guidance for a small team of developers

Links: [CTEs for Legible SQL](#), [Fan Loyalty and Perception of Euro 2016](#)

## **Software Engineer, Platform | Networked Insights**

September 2011 - January 2015

Java, Storm, Hive, Hadoop, Oozie, Zookeeper, Spring, Postgres, Wicket

- Designed, architected, and wrote a framework similar to Azkaban or Luigi to stitch together disparate ETL and workflow subsystems into a united core ETL solution. These workflows were driven by an evaluated configuration file approach - similar to Gradle build scripts, but for ETL. Used by platform and data team members to coordinate read/write locks, dependencies between steps, and more.
- Built a series of aggregations on top of Hive using this framework that sat in-between Storm and an MPP database. Powered our main dashboard product. Evaluated ~500m data points per day.

Link: [Gru Workflow Guide](#)

## **Web Developer | University of Wisconsin Hospitals and Clinics**

October 2008 - September 2011

Java, Tomcat, Apache, Stripes MVC Framework, jQuery, SQL Server

Developed and maintained UW Health internal and external web apps, including bill pay, CMS platforms for internal and external content, performance management systems, Find A Doctor, and more