

# Michael Kohlberg

MichaelKohlberg.com

Full Stack Software Engineer

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Electrical and Computer Engineer in Training

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## **Professional Summary**

I am a full stack software engineer with a background in mechanical and electrical engineering and a passion for getting stuff done.

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## **Education**

University of Missouri Columbia BS Mechanical Engineering, Computer Science Minor 3.57 GPA 2017

General Assembly Software Engineering Immersive

13-week Coding Bootcamp 2022

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## **Personal Coding Projects**

PokéClone Tech: HTML, CSS, Javascript, PokéAPI, Canvas

- Pokémon based RPG where a user battles randomly encountered or searchable real Pokémon fetched from API

OolHaveThat Tech: Postgres, Express, Node, Bootstrap, EJS, MapBox API, Data seeding, Sequelize

- Peer-to-peer tool sharing platform allowing DIYers to request tools from other nearby users

Reart Tech: React, MongoDB, Express, Node, Mongoose, RestfulAPI, Stripe, Postman

- Subscription art rental platform where users select keyword preference tags which allows our automated warehouse to personalize suggestions for quarterly art rentals/purchases

AlgoViews Tech: React, MongoDB, Express, Node, RestfulAPI, Async Javascript

- Algorithm visualization tool aimed at students which sorts an array on-screen according to various algorithms

KCMOMovers.com Tech: HTML, CSS, Javascript, PHP, jQuery, Flexbox, Grid

- Personal company website for marketing purposes as well as coding practice

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## **Other Computer Proficiencies**

AngularJS, Python, ROS, VPN, PM2, SystemCTL, Ubiquiti, RaspberryPi, AWS, S3, ASP.NET Core, C#, Microsoft SQL Server, Entity Framework, Laravel, Eloquent, MySQL, NoSQL, SQL, Java, C, Matlab, Simulink, Django, TypeScript, JSX, JSON, XML, UI/UX, PLCs (TwinCAT), Git (Github, Azure), Kubernetes, Docker, Microsoft Office (Excel, Access), Linux, Windows, MacOS, Remote Desktop, Agile, Scrum, Authorization, Authentication, WordPress, CAN Bus, RV-C, PCANN, Ionic, Capacitor, Ignition, AutoCAD, SolidWorks, OnShape, Allen Bradley, GIS, Synergy, LabView

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## **Work Experience**

Kaw Technology Group

Senior Software Engineer

May 2023 - Present

- Led a hardware/software company focused on automating survey data collection using LiDAR scanners.
- Engineered a web platform showing 3D visualization of point clouds, graphical trendlines for tonnage and volume change, heatmaps, contour maps, and slope analysis.
- Designed and manufactured solar powered LiDAR scanners tailored for remote survey applications.
- Designed and implemented automated PDF reporting for survey data insights in a printable format.
- Directed all aspects of business strategy, including defining deliverables, setting product vision, and making key decisions on technology and market direction.
- Architected tech stack including React, Node, Python, ROS, C++, PDAL, Kubernetes (Docker) and MongoDB.

<u>Firefly Integrations</u>	Mobile Application Developer	March 2022 - March 2023
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## Mobile Application Developer

March 2022 - March 2023

- | <u>KCMO Movers</u> | Owner / Operator | 2014 - 2022 |
|--------------------|------------------|-------------|
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## Owner / Operator

2014 - 2022

- New Frontier Technologies      Traveling Controls Engineer      March 2020 - March 2021

## New Frontier Technologies

## Traveling Controls Engineer

March 2020 - March 2021

- Kays Engineering Controls Software Engineer Jan 2018 - March 2020

## Kays Engineering

## Controls Software Engineer

Jan 2018 - March 2020

- Kays Engineering Controls Engineering Intern Summer 2017

## Kays Engineering

## Controls Engineering Intern

Summer 2017

- Alliant Energy                      Natural Gas Engineering Intern                      Summer 2016

Alliant Energy

## Natural Gas Engineering Intern

Summer 2016

- Associated Electric Coop Inc. Reliability Engineering Intern Summer 2015

Associated Electric Coop Inc.

## Reliability Engineering Intern

Summer 2015

- ### Other Skills and Interests

## Honors and Achievements

- Passed Fundamentals of Engineering Exam for Electrical & Computer Engineering (without EE degree)
- Fabricated thermoelectric generator allowing a campfire to charge a cellphone battery (Senior Capstone)
- Web Manager for Mizzou Electric Car Team (completed electric drivetrain conversion of Chevy truck)
- Web Manager for Mizzou Robotics Club (fabricated battle bot and competed against other universities)
- Designed battery/solar system for my personal RV (400W of solar, 600Ah of Renogy batteries)
- Developed CounterMeme (website similar to reddit where memes are created and battled head-to-head)
- HackMizzou 2016 contestant (Led a team to develop our idea of a grocery finder app for Walmart)
- High honor roll for 9 straight semesters at University of Missouri College of Engineering