

Michael Kohlberg

MichaelKohlberg.com

Full Stack Software Engineer

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Objective

I am a mechanical engineer by trade with a passion for coding looking to make a career transition to full time software development.

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

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” allowing our automated warehouse to personalize suggestions for their quarterly art rentals

AlgoViews

Tech: React, MongoDB, Express, Node, 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

Other Computer Proficiencies

Python, UX, PLCs (TwinCAT), Java, Git (Github, Azure), C, Matlab, Simulink, NoSQL, SQL, MySQL, Django, Microsoft Office, Windows, MacOS, Remote Desktop, Agile, Scrum, Authorization, Authentication, WordPress, jQuery, JSX, JSON, XML, Ignition, AutoCAD, SolidWorks, Allen Bradley, GIS, LabView.

Work Experience

New Frontier Technologies

Traveling Controls Engineer

2020 - 2021

- Installed control panels, wireless temperature sensors, modem and router to allow power savings on freezers, lights and other appliances at gas stations and fast food restaurants.

Kays Engineering

Controls Programming Engineer

2018 - 2020

- Developed object oriented PLC program for automated drilling and boring machines using TwinCAT software.
- Incorporated both CNC G-code functionality along with simpler, conversational programming for the HMI.
- Worked directly with all levels from OEMs to day-to-day operators to produce user-friendly HMI.
- Read and edited electrical prints to understand how a machine would work.
- Integrated and parameterized VFD and servo drives as well as other peripheral hardware.
- Utilized a variety of networking and source control tools to troubleshoot with customers.

Kays Engineering

Controls Engineering Intern

Summer 2017

- Developed communications for new Smart Panel PC to control the original PLC in older machines.

Alliant Energy

Natural Gas Engineering Intern

Summer 2016

- Modeled pressure and flow in natural gas networks using Excel and GIS software.

Associated Electric Coop Inc.

Reliability Engineering Intern

Summer 2015

- Assisted in revamping coal power plant preventative maintenance operations.

KCMO Movers

Owner / Operator

2014 - 2021

- Managed a small moving business including all marketing, billing, customer relations and employee management.

Other Skills and Interests

Long term planning, Asset management, Electrical installation, RV maintenance, Solar/Battery/Generator configurations, Homeowner DIY, Mobility, Climbing, Volleyball, Hockey, Communication, Integrity.

Honors and Achievements

- Passed Fundamentals of Engineering Exam for Electrical & Computer Engineering (without EE degree)
- Developed 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)
- 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)