WILL FARRELL
SOFTWARE DEVELOPER

Communicative learner, always interested in expanding my technical toolbox and building cool solutions with others. As a former educator turned programmer, I possess the language and interpersonal skills to break down and communicate complex technology solutions.

✉ farrell.will.g@gmail.com
📞 (563) 210 - 7275

in william-farrell-programmer
○ farrellw

SKILLS

SOFTWARE	JavaScript, TypeScript, React, Go, Node, AWS, MongoDB, Lambda, Docker, Mocha, NoSQL, Angular(2-7), Kubernetes, Jenkins
WORKFLOW	Agile Methodology, Containerization, Git Workflow, Pair-Programming, REST APIs, Test Driven Development, Pipeline-As-Code

PROJECTS

Memory - Elmlang / Functional
Sept. 2019 to Nov. 2019
Classic Memory game written in Elmlang, as a deep dive into purely functional mindset. Live Site: https://memory-with-emoji.herokuapp.com/

Graduation-Countdown
Mar. 2018 to Current
As a favor to current Brown School students, this React project is an interactive countdown to the Wash U graduation. Technology used includes an Express application, React front end with Flux design pattern. Repo: https://github.com/farrellw/graduation-countdown

HOTT (HBK O'Calc Transfer Tool)
Sept. 2017 to Oct. 2017
Architected this greenfield project, nicknamed the HOTT by the company. Application automates the complex data entry of building utility poles within a 3rd party software. Dropped the time per pole built by 88% (45min to 5 min). Coordinated between company departments to adjust inputs and outputs. Built in TypeScript and packaged in an easy to use command line executable. When finished, instituted a feedback loop to keep app current with needs of the company. Saved 10 employees per year of work power.

Raspberry Drive
Nov. 2016 to Nov. 2016
Developed an autonomous remote controlled car that could successfully navigate a track with turns. Written entirely in Python. Used image recognition software asynchronous communication with Python threads. Repo: https://github.com/farrellw/RaspberryDrive

EDUCATION

Dev Bootcamp
Certificate Coding Bootcamp 2016
Full-Stack web development school in a life-changing environment. Developed a repeatable process for learning new software proficiencies quickly and working effectively on project teams.

Louisiana State University
Master's Educational Leadership 2016

Creighton University
Bachelor's Political Science & Data 2012

EXPERIENCE

1904 Labs
St. Louis, MO
Software Engineer · Apr. 2018 to Current
- Full-stack development using TypeScript, GO.
- Build applications with React, Angular 6+, Elm.
- DevOps: Containerize application using Docker & Kubernetes.
- DevOps: Set up CI/CD pipeline-as-code using Jenkinsfiles.
- AEL backup: Led scrum activities, sprint planning when AEL unavailable.

HBK Engineering
Chicago, IL
Software Engineer · Feb. 2017 to Apr. 2018
- Full-stack development using JavaScript, TypeScript, GO.
- Split time between new features, bug fixes, and performance improvements.
- Build applications with the front end frameworks React, Backbone, Angular 2 & 4.
- Utilize Docker, AWS, Lambda.
- Spike on a 1 month greenfield project in TypeScript, automating a data entry task which freed up more than 10 employees per year of work power.
- Transition REST API to micro services
- Scrum master, developing and implementing team standup procedures.

MidWest Machine
Chicago, IL
Full-Stack Software Developer · Nov. 2016 to Feb. 2017
- Build software with object-oriented, server side JavaScript.
- Partner back-end with a clean and easy to understand user interface.
- Craft custom API calls to an internet hosted database.
- Automate 20 minute process to under 15 seconds (Approx. 1.8hrs company time saved per day).

THRIVE Academy / Teach for America (TFA)
Baton Rouge, LA
Special Education Coordinator / Athletic Director · July 2012 to July 2016
Special Education Coordinator
- Significantly increased students' reading, math, and social skills by 1.8 grade levels per year.
- Executed professional development and data-driven instruction for 15 teachers and administrators.
- Special education students outscored their regular education counterparts for the first time in school history.
Athletic Director
- Managed an athletic budget of $25,000 between eight different sports and activities.
- Directed a staff of 16 coaches, issued staff contracts, developed hiring/dismissal protocols, provided continuing education, maintained relationships with district/state sports organizations, and oversaw fundraising efforts.
- Founded THRIVE's first high school and middle school sports program.
Corps Member – History Teacher
- Adapted quickly to a difficult environment; achieved highest testing scores in school history.
- Was rated in the 99th percentile of teachers for student improvement scores.
- Executed professional developments in the area of behavior management, creating culturally relevant lesson plans, and data driven assessment.

VOLUNTEERING

Coders - Lift For Life
Aug. 2018 to Current
- Work with students at Lift For Life Academy through an after school coding club.
- Using the MIT App Inventor, teach students understanding of programming logic by building fun applications.
- Assist students in building their own apps in a 5-week project.

LaunchCode
July 2018 to Current
- Scrum master for a group of 8 Launch Code fellows
- Give actionable feedback on projects, lead scrum activities, help get fellows through the program and into their first dev job.