Justin Lowen

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Public Copy - Contact Via Email

GitHub: github.com/JLowe-N

PROJECTS

CSV & Rest API Data Merge Command Line Tool — Dec 2020 - Present

- Developed **JavaScript** command line tool to merge CSV with JSON data from a **REST API**
- Built **Jest** Unit & Integration tests for various API response types including mocked functions
- Designed **asynchronous Node.js** application to take advantage of multiple connections, treating the CSV data as a stream and using event-based error handling
- Managed dependencies through the use of **npm** and Linux based command line

Movie Streaming Service - Web Application — Jan 2020 - Present

https://jlowen-netflix.netlify.app/

- Recreated the Netflix frontend user interface using **React** and **Styled Components** that allows users to create a profile and search movies
- Implemented Unit and Integration testing through the **Jest** to improve maintainability
- Converted **JavaScript** version of application to **TypeScript** to improve developer experience

Cloud Function Rendered Site for Brand Content Delivery — Jan 2020 - Present

https://linktree.justinlowen.workers.dev/

- Project that implements a Linktree user page - a site that allows brands and influencers to share links to content relevant to their audiences to engage and grow their user base
- Created a **cloud based JavaScript** app that transforms an HTML template as it streams to users
- Developed a **Golang** based **command line tool** to measure site performance

WORK EXPERIENCE

Halliburton — June 2012 - May 2020
Data Project Lead (Pinnacle Microseismic & Fiber Optics) — Jan 2019 - May 2020

- Lead data acquisition projects including planning, communication, and technical analysis
- Interpret, analyze, and present project microseismic and fiber optic data through **visualization**
- Use **Python** to extract, transform, and load table data and to extend visualizations

Petroleum Engineer — June 2012 - Jan 2019

- Lead 50-member oilfield fracturing services teams by analyzing and interpreting streaming data from industrial sensors, and advising customer and non-technical teams on corrective actions
- Learned **Python** including **numpy** and **pandas** to clean tabular data of variable quality
- Mentoring 100+ new engineers during rapid growth phases through classes and coaching

EDUCATION

Certification, Full Stack Technology, Frontend Masters   **2020-2021**
- Deploy and **secure a cloud server** on Digital Ocean in **Linux** Ubuntu for Node backend API
- Upgrade an existing app to **TypeScript**, to create better developer experience and error checking
- Learn deep **JavaScript** fundamentals including async, promises, callbacks, closure, and more
- Deploy Node APIs to learn **databases** - PostgreSQL, MongoDB (NoSQL), Redis using Docker

Certification, Algorithms & Data Structures, AlgoExpert   **2020**
- 300 hours of coursework analyzing data structures and algorithms

Certification, Frontend Developer, Scrimba   **2020**
- 250 hours building with modern JavaScript (ES6+), React, HTML5, and CSS3 (Flexbox/Grid)

Bachelor of Science, Chemical Engineering, University of Pittsburgh   **2012**

SKILLS & INTERESTS

Frontend: React, JavaScript (ES6+), HTML5, CSS3, REST API Usage & JSON
Backend: REST API, HTTP Methods, Node.js, Express.js, Python, Django Framework, SQL
Principles: Data Structures, Algorithms, Agile, Scrum, Object Oriented Programming (OOP)
Tools: Git, GitHub, NPM, Jest Test Framework, Linux, Bash, Numpy, Pandas

Interests: Traveling, homebrewing, kombucha, cooking, gardening, reading