Justin Lowen

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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

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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