

Samuel Jo

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Projects

Netclips | *Rails, PostgreSQL, React, Javascript, Redux*

[Live](#) | [GitHub](#)

Single-page video streaming application with a Netflix-inspired UX created in 9 days.

- Built an LRU cache with a doubly-linked list to reduce number of queries to the database and improve user experience by storing most recently viewed series.
- Created own suggestions engine using Rail's native ORM framework, ActiveRecord, to recommend videos that match a user's preferences.
- Utilized React to minimize AJAX requests and ActiveRecord & jBuilder to prefetch data and send JSON structures to limit any redundant queries to the database.

jQuery | *JavaScript*

[Demo](#) | [GitHub](#)

DOM manipulation library demonstrated with the classic game, Snake.

- Created a lightweight library to manage core DOM manipulation functionality, making AJAX requests and event handling with native DOM API.

Mini-lennium Falcon | *JavaScript, HTML5, jQuery*

[Live](#) | [GitHub](#)

Addictive browser game inspired by Jetman and the Millennium Falcon created with own library, jQuery.

- Developed a JavaScript browser game with HTML5 Canvas for rendering and collision detection.
- Utilized own library to create all event handlers and manipulate jQuery objects and DOM elements.

Skills

• Ruby • JavaScript • React • Rails • jQuery • Redux • SQL • HTML • TDD • CSS • Git

Experience

Process Engineer, GLOBALFOUNDRIES & IBM – Essex Junction, VT

2015

Utilized lean manufacturing and problem-solving to develop and optimize processes.

- Owned qualification project to replace an obsolete tool and improve quality, delivery, and cost by 15%.
- Developed proposal to replace a tool part to reduce costs by >\$135,000/year and increase output.
- Created dashboard of over 200 SPC charts for 32 toolsets to improve quality and decrease waste.

Education

App Academy, Web Development – New York, NY

2016

Intensive 1000+ hour full-stack programming school, acceptance rate < 3%

Master of Science, Applied Physics, University of Oregon – Eugene, OR

2014-2015

Overall GPA – 3.43

Bachelor of Arts, Physics, Skidmore College – Saratoga Springs, NY

2010 -2014

Major GPA – 3.70