

Samuel Jo

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Projects

Netclips | JavaScript, React, Redux, Rails, PostgreSQL

[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 requests to the server 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, Firebase

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

Addictive browser game inspired by Jetman and Star Wars 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.
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Skills

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

Experience

Process Engineer, GLOBALFOUNDRIES & IBM – Essex Junction, VT

Jan 2015 - Dec 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 improve costs by >\$135,000/year and output by 10%.
 - Created dashboard of over 200 SPC charts for 32 toolsets to improve quality and decrease waste.
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Education

App Academy, Web Development – New York, NY

Aug 2016 - Nov 2016

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

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

Jun 2014 - Nov 2015

Overall GPA – 3.43

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

Sept 2010 - May 2014

Major GPA – 3.70