

# 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 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.

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## Skills

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

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## 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 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

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*