

**SKILLS** JavaScript, Ruby, Rails, React, Redux, MongoDB, Express, Node.js, HTML, CSS, THREE.js, TypeScript, D3.js, , Amazon AWS, next.js, Material UI, Machine Learning, Graphic Design, Photoshop, InDesign, 3D animation, Autodesk Maya

## EXPERIENCE

Full Stack Developer

SourceDiv Inc.

Sep 2020 - March 2021

- Deployed serverless application to send weekly update emails to clients using AWS Lambda Function.
- Developed a user signup system to send out invitation mails with AWS Simple Email Service.
- Built several features of the candidate sourcing web app, in charge of both front end and back end.
- Utilized Next.js and Material-UI to build mobile optimized pages.
- Integrated Stripe into the company web app as a billing system.

Senior Graphic Designer

Happiness Advertisement Co. Ltd.

May 2010 - Aug 2013

- Successfully executed over 100 graphic design projects from concept through completion, meeting deadlines and requirements 100% of the time
- Worked closely with clients to conceive designs and deliver creative projects that exceeded their expectations
- Achieved company's lowest design production error rate for three consecutive years

## PROJECTS

32em | (React/Redux, Rails 5, Amazon S3)

[live](#) | [github](#)

Pixel perfect clone of 500px, a photo sharing website. It is a fully functional photo sharing website on both PC and phones

- Developed an algorithm to normalize the height of photos, aligning photos of different sizes beautifully and neatly
- Employed infinite scroll to only load 25 photos each time, alleviating the load of the server
- Styled appearance carefully to be pixel perfect and thoroughly polished the 6 features to be production quality

SlowMoVideo Showcase | (MongoDB, Express, React, React hooks, Node.js, Amazon S3)

[live](#) | [github](#)

Built to serve soundless slow motion party videos. Developed as step one of the solutions to a small business.

- Carefully planned and engineered to adapt and enhance the workflow of the business.
- Front end purely constructed with React functional components, fully utilized the new React hooks.
- Styled to work with mobile browsers with interactive animations.

TrainTris | (Vanilla JavaScript, THREE.js, Machine Learning)

[live](#) | [github](#)

The classic Tetris with a new 3D look and has the ability to train itself as the user plays.

- Ensured that core logic is separated from renderer, making training data collection much easier
- Devised the interface using Three.js, resulting in a metallic-look appearance with dazzling light effect
- Optimized the training data for the neural network in brain.js and the model begins to make reasonable predictions after 50 training entries.
- Compressed the neural network and data and reduced space occupied by 99%

## EDUCATION

Columbia University

2019

**Bachelor of Arts, Computer Science, Application Track**

Relevant Coursework: Operating System, Compiler, Machine Learning, Computer Graphic, Analysis of Algorithm, Network

**AppAcademy**

2020

Rigorous Full Stack Web Development Bootcamp with 3% acceptance rate