

# John Yu

Software Developer  
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## WORK EXPERIENCE

### College Board Reston VA. — Senior UI Engineer (Contract)

November 2020 - Current

Developed react applications with new frameworks and libraries.  
Deployed applications using AWS Serverless (S3, Cloudfront, Lambda, API Gateway). Generated reports using SQL.

### Bellese Technologies Baltimore MD. — Full Stack Developer

April 2020 - November 2020

Frontend Angular Development on a Hospital Quality Reporting project for the Centers of Medicare & Medicaid Services (CMS).

### BlueOrange Digital Northern V.A. — JavaScript Developer

July 2019 - March 2020

Joined the company as a Full Stack JavaScript developer and was the first developer on project Eric, a data visualization dashboard for an energy company. We built the project from scratch and included the latest technologies such as React Hooks, ES6, Typescript, Jest/Enzyme, Styled Components, AWS, Kubernetes, Storybook, Highcharts, D3, Node, Docker, and CircleCI. Had a great experience learning best coding practices and agile teamwork. Phase 1 of the project was successfully released.

### Learn Code From John Northern V.A. — Self Employed Developer

November 2018 - July 2019

Worked as a freelance developer and programming tutor helping professionals learn coding skills and software.

### Clutch Washington, D.C. — Web Developer

May 2018 - November 2018

Developed an Angular and Node.JS/Express application for company employees to improve business functions. The application had connections to Elasticsearch clusters, MongoDB, MySQL databases, and the company's Google Drive and Google Analytics to gather information on the backend. Used Highcharts JS and Angular Datatables for company management to display such data to monitor company and employee performance.

The data from noted sources were also used to automate the generation of

## CERTIFICATES

AWS Certified Solutions  
Architect - Associate

Coding Dojo Full Stack  
Development

## TECHNOLOGIES

HTML, CSS, Git, Responsive  
Web Design, Bootstrap,  
Angular, React, Redux, SQL,  
NoSQL, Node, Linux, D3,  
Leaflet.JS, Highcharts JS,  
Numpy, Pandas, Scikit-learn,  
Elasticsearch, Datatables,  
Google Scripts, Babel,  
Webpack, AWS, GoLang

## LANGUAGES

JavaScript, Python

## GENERAL CONCEPTS

MVC Framework  
RESTful Architecture  
Test Driven Development  
Version Control, Git, GitHub  
Object Oriented Programming  
Functional Programming  
Responsive Web Design  
Web Security Basics  
SQL Database Design  
NoSQL Database Design  
API Integration  
Authentication/Authorization  
Object Relational Mapper

CSV files which were important for the company's marketing efforts. Gained extensive experience with Elasticsearch queries, asynchronous JavaScript, creating CSV files, and exporting files directly to Google Drive through Google Drive and Sheets API. Experienced with using the Google Drive and Sheets JavaScript client libraries and documentation.

### **REI Systems Sterling, Virginia. — Associate Software Engineer**

March 2017 - April 2018

Worked as a government contractor for the GSA open government website Data.gov and Catalog.data.gov. Catalog.data.gov uses CKAN, a data management technology used to publish collections of data. The CKAN stack uses JavaScript for frontend, Pylons (Python backend framework), SQLAlchemy, PostgreSQL, and SOLR. Gained experience working in a DevOps environment, the Command-line interface, Vim, Linux instances, and the IT automation tool Ansible.

Developed frontend Leaflet.JS maps, D3 Charts, Python scripts for cron jobs, Wordpress feature improvements, and a PHP Unit test presentation. Incorporated and added new dimensions and metrics to the ckanext-ga-report extension, which uses the Analytics Reporting API v3 in Python.

As a team, we received the highest score of "exceptional" by the Contractor Performance Assessment Reporting System in all categories except for "very good" in one category, Cost Control.

### **Coding Dojo Washington D.C. — Teaching Assistant**

February 2017 - March 2017

Assisted and instructed students in their learning of full-stack development (Python/Django, MEAN, Ruby on Rails). Provided coding demonstrations and help with algorithms.

### **University of Maryland College Park, Maryland — Research Technician**

October 2011 - May 2012

Performed gel electrophoresis and enzyme assays with radioisotopes. Assisted in cell cultures and managed laboratory invoices.

## **PERSONAL PROJECTS**

### **PDF Filler — A front-end form that automatically converts into a filled PDF**

Technologies: React, HTML, CSS, Bootstrap, S3, Lambda, Hummus

<http://pdf-form-react.s3-website-us-east-1.amazonaws.com/>

### **MinesweeperReactRedux — Remake of original Minesweeper game using React and Redux**

Technologies: React, Redux, HTML, CSS, Bootstrap, S3, CloudFront

<https://daxbktzcflo6t.cloudfront.net/>

**Minesweeper3d** — A 3-dimensional Minesweeper game using React and Redux

Technologies: React, Redux, HTML, CSS, Bootstrap

<https://john123yu.github.io/MineSweeper3D/>

**Friend Events** — Social media web application for finding/creating local events and meeting other users with similar interests (MEAN)

Technologies: AngularJS, MongoDB, Express, Node.JS, Bootstrap, jQuery, HTML, CSS, Bcrypt, Mongoose, Socket.io, S3, EC2

**DataCharts** — Data-visualization of United States zip codes clustered by IRA Tax Information

Technologies: Angular, MongoDB, Express, Node.js, Leaflet, Highcharts, Pandas, Scikit-learn, Mongoose, Machine Learning, EC2

**Great Homes Realty** — Web application developed for real estate company Great Homes Realty. Includes both easy usage for clients to browse/view listings and an admin interface for company agents to post and create listings (Django)

Technologies: Django, Ajax, jQuery, HTML, CSS, Python, Bootstrap, SQL, Sqlite, Bcrypt

**Minesweeper Remake** — Remake of original minesweeper

Technologies: HTML, CSS, jQuery, JavaScript

<https://john123yu.github.io/MineSweeper1/>

## EDUCATION

**Coding Dojo, Washington D.C.**

October 2016 - February 2017

Coding Dojo teaches web development in three full stacks. Graduated with three black belts, the highest exam score given by Coding Dojo. Each exam consisted of creating a functional web application under 4 and one-half hours that matched requirements demonstrated by a wire-frame.

**SUNY Downstate College of Medicine, Brooklyn, New York**

September 2012 - May 2016 (Completed 2+ years of training)

Developed skills in and extensive practice with taking and presenting a detailed medical history, communication with patients, analyzing medical laboratory data, and forming differential diagnoses.

## **University of California, Los Angeles— Microbiology, Immunology, and Molecular Genetics B.S.**

September 2007 - June 2011

Graduated with a cumulative GPA of 3.61. Leadership activities include being a director of Bruin Partners, a campus organization that provides one-on-one mentoring and tutoring for Culver City middle school students.

## **ONLINE COURSES**

### **Coursera**

- Introduction to Data Science in Python
- Machine Learning by Andrew Ng and Stanford University
- Cloud Computing Concepts, Part 1
- Mathematics for Machine Learning: Linear Algebra
- Data Structures - University of San Diego
- Algorithms on Strings - University of San Diego
- Algorithms on Graphs - University of San Diego
- Introduction to Big Data - University of San Diego

### **Udemy**

- Build Complex Express Sites with Redis and Socket IO
- Data Structure and Algorithms Analysis - Job Interview
- JavaScript Design Patterns: 20 Patterns for Expert Code
- Modern React with Redux
- RxJs 6 In Practice
- Asynchronous JavaScript
- Angular Crash Course for Busy Developers
- Complete Guide to Elasticsearch
- Angular 7 - The Complete Guide
- Angular Universal Masterclass & FREE E-Book
- Server Side Rendering with React and Redux
- Docker Crash Course for busy DevOps and Developers
- ES6 Javascript: The Complete Developer's Guide
- The Complete React Web App Developer Course
- Python for Data Science and Machine Learning Bootcamp
- Machine Learning A-Z: Hands-On Python & R in Data Science
- Mastering Ansible
- Complete Python Bootcamp: Go from zero to hero in Python
- Ubuntu Linux Server Basics
- Learning ECMAScript The Next Generation of Javascript
- JavaScript: Understanding the Weird Parts
- Build Responsive Real World Websites with HTML5 and CSS3

### **Code Academy**

- Learn the Command Line
- Learn Sass
- Learn Git
- Intro to HTML
- Intro to Javascript
- Intro to CSS

## READINGS

- Eloquent Javascript
- Fluent Python
- Elements of Statistical Learning
- Learn Enough Command Line to Be Dangerous
- Learn Enough Git to Be Dangerous

## Articles

<https://medium.com/@learncodefromjohn/passing-data-from-parent-to-child-components-and-vice-versa-with-react-406bb4521512>

<https://medium.com/@learncodefromjohn/how-to-make-minesweeper-with-react-fb4f9b5358da>

<https://medium.com/@learncodefromjohn/how-to-make-minesweeper-with-react-part-2-b342710cef5b>