

ADILBEK MOMUNALIEV

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[adilnomad.github.io/website](#)

SKILLS

Languages

Python, Java, C/C++,
JavaScript, TypeScript
HTML / CSS, SQL
Swift

Technologies

Node.JS, React / Redux,
AWS, Docker, PostgreSQL
MongoDB, Xcode, OpenCV
Scikit-learn

Big Data

Spark

EDUCATION

University of South Florida

B.S. Computer Science
Aug 2015 - May 2019

Coursework:

Analysis of Algorithms
Data Structures
Operating Systems
Database Design
Geo Machine Learning
Computer Architecture
Image Processing

Campus Involvement:

USF Society of Competitive
Programmers (2018-2019)

WORK EXPERIENCE

Software Engineer Intern - 180ByTwo

Aug-Oct, 2018

- Worked on delivering and pipelining data at 180ByTwo, a data driven marketing consultancy company.
- Using data analysis tools such as Spark, Machine Learning APIs etc, conducted analysis of large proprietary data sets to develop clever marketing programs for clients.
- Optimized queries on Spark platform to speed up execution by a factor of 10, enabling the delivery of marketing campaign data in a timely manner.
- Solved the problem of joining two datasets by using Dedupe.io API, achieving the accuracy of matched entries to 91%.

Software Engineer Intern - Vixlet

Jun-Aug, 2017

- Worked on enriching a user's profile page on Vixlet platform, a social network company that connects people around common passions.
- Developed and integrated REST API endpoints what would supply information on individual's favorite sport's teams and athletes.
- Performed extensive unit testing of the endpoints using Mocha, achieving consistent response within 200ms under the load of serving thousands of clients.
- Collaborated with front-end engineers to help them coordinate and outline the format and structure of the API data.

PROJECTS

The Game of Life [Website](#) | [Github](#)

React, Bootstrap, GSAP, Heroku

- Build browser game where one can set a state and run simulation to see beautiful patterns emerge.
- Implemented a small library of the discovered patterns such as glider, pulsar, tumbler, and etc.

Sorting Visualizer [Website](#) | [Github](#)

React, Konva, GSAP

- Build visualization tool for sorting algorithms.
- Implemented Quick Sort, Selection Sort, and Insertion Sort with color coding.

Film Poster Lookup [Website](#) | [Github](#)

Node.JS, GSAP, Heroku

- Website to lookup the poster of your favorite film.
- Implemented the project consuming the data from OMDB API and displaying it using DOM manipulation.

MDS Algorithm Visualizer [Github](#)

Tkinter, Scikit-learn, Matplotlib, Networkx

- Build desktop application that reduces the dimensionality of the graph.
- The Application takes input of the coordinates of the 3D graph and displays a reduced 2D graph.