

Contact

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Websites

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Coursework

Algorithms
Computer Architecture
Computational Finance
Data Structures
Database Systems
OOP in C++
OOP in Java
Operating System Principles
Software Engineering
Theory of Computation
Calculus I, II, III
Discrete Structures
Linear Algebra
Numerical Methods
Probability and Statistics

Skills

Javascript
React
Redux
Ruby
Rails
C++
Java
R
HTML
CSS
PostgreSQL
jQuery
AJAX
AWS
Webpack
Git
UNIX

Education

App Academy - Web Development (2019)

Queens College, CUNY - B.A. in Computer Science (2014-2019)

Queens College, CUNY - B.Sc. in Quantitative Economics (2014-2019)

- Received the Peter F. Vallone Academic Scholarship
- Implemented a TinyJ compiler and interpreter in Java
- Simulated a mini Kernel that managed and synchronized threads on a single processor machine using various operating system scheduling algorithms (Java)
- Wrote a senior thesis paper that explored the effect of police presence on street crimes across NYC precincts with regression analysis in R (Economics dept. award)

Projects

thefacebook (Ruby on Rails, ReactJS, Redux, PostgreSQL, HTML, CSS, AWS)

live | [github](#)

Single-page full-stack web application that mirrors the functionality of Facebook

- Ensured user operation autonomy through frontend and backend authentication measures and React Router, allowing users to solely alter their own profile, posts, and comments
- Employed React to resolve components that render upon change of state rather than a full refresh decreasing the amount of time to navigate through pages
- Utilized Amazon Web Services S3 (AWS) that allows users to upload personal photos in order to have a more personal and enjoyable user experience

exploreCrimeNYC (Javascript, Ajax, jQuery, Google Maps API, HTML, CSS)

live | [github](#)

Visualization of statistics from the city's crime complaint data by NYPD

- Performed DOM manipulation using Vanilla JS to enable dynamic user interaction with the crime data via provided filtering options
- Utilized Google Maps API and Heatmap Layer to portray intuitive visualization of data
- Collected the crime data both through Ajax request to SODA endpoints and CSV file (CSV - JSON parser written in Ruby)

CUNYHackathons (PHP, MySQL)

[github](#)

A social platform where students can chat, build teams, and compete in City Hackathons

- Designed normalized backend schema with unique user roles that accommodates user operations such as messaging, creating groups, and fetching user information
- Communicated with frontend team member through scrum meetings to identify daily plans and refactor burndown chart accordingly
- Built a query string based on multiple user specifications to reduce frequent database requests that otherwise would be costly and inefficient

Work Experience

Portfolio Manager | Self-Employed - Jan. 2016 – Aug. 2019

- Analyzed over 20 stocks market data and developed a strategy with adjusted personal risk level that makes a consistent 18-22% annual profit
- Refactored strategy over time by analyzing the relevant data stored in the private database to adjust risk level and portfolio to latest market behavior

Tutor | Academy Support Center, Queens College - Sept. 2017 – Dec. 2018

- Taught introductory and intermediate Economics courses to undergraduate students
- Developed comprehensive lesson plans that accommodated various visual illustration of complex concepts. Hosted review sessions for midterm and final exams (Price Theory)