Alex**Plyushchay**

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EXPERIENCE

J.P. Morgan | Newark, Delaware   2018 - Present

Software Engineer, Corporate Technology
- Developed Java/Spring microservices deployed to internal cloud platform, utilizing Apache Impala to process petabytes of data from a hadoop ecosystem.
- Designed and developed a React-Redux application to manage big data interactions by implementing reliable state handling and minimal renderings to provide a smooth user experience and great performance.
- Created and internally published an embeddable and customizable React component written in Typescript that serves as a discussion platform used by multiple teams throughout the firm.
- Developed Angular application to interface with big data, using ag-Grid to display and allow interactions with the data. Optimized communications protocols for enhanced performance using RxJS.
- Utilized SQL Abstract Syntax Tree (AST) concepts in Java to dynamically represent complex queries, written in any query language, in simple JSON format while maintaining security.
- Created custom serialization and deserialization processes to handle complex data models while minimizing interactions with the database during API calls.
- Developed an abstracted and reusable query builder library in React that serves as a GUI to create complex queries of infinite depth.
- Wrote unit and integration tests for all microservices and UI using JUnit, Mockito, Jest, Enzyme, and others.
- Worked with Developer tools such as Jira, Bitbucket, Confluence, Continuous Integration and Deployment systems such as Jenkins.

Roanwell Corporation | Bronx, NY   2015 - 2018

Mechanical Engineer, R&D Engineering
- Developed a website for subsidiary using Wordpress, PHP, CSS and HTML5.
- Designed and manufactured military flagship headsets with sound suppression and designed the Marketing Catalog using Adobe InDesign.

SKILLS

React-Redux	**Java-Spring**	**Typescript**	**HTML5/CSS**	**Python(Novice)**
RubyOnRails	**Angular**	**SQL**	**Node.js-Express.js**	**Big Data**

PROJECTS

Query Builder TS (React, Typescript)   Live | GitHub | npm

Highly dynamic Query builder written in typescript
- Developed a versatile library for React written in Typescript for complex query generation.
- High performance with little footprint using React memoization techniques and dynamic component generation.

Fight or Flight (JavaScript, jQuery, CSS)   Live | GitHub

2D Aerial combat with intelligent AI enemies
- Programmed a dynamic AI to target and fire the player while avoiding crashing into them
- Developed using pure JavaScript by manipulating the HTML canvas element with vector mathematics

EDUCATION

App Academy | New York, NY   2018
- Emphasis on algorithms, scalability, TDD, OOP, REST, best practices and efficient design.

Grove School of Engineering – City College of New York | New York, NY   2015

Bachelor of Engineering, Mechanical Engineering
- *Course Highlights:* Thermodynamics, Aerodynamics, Mechatronics, Control Systems.
- *Organizations:* Aerospace Club, National Association of Rocketry (NAR), Planetary & Rocket Science.
- Awards: The Jack & Jelly Feinstein Best 2015 Senior Design Project (ALICE Robot)

References Available upon Request