

# Ryan Jacobson

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## Personal Projects

### JavaScript Raycasting Engine

[View Project](#) | [Github](#)

- Created a raycasting engine in the browser complete with accurate distance calculations as well as texture mapping.

### Sorting Algorithm Visualizer

[View Project](#) | [Github](#)

- This project was built using React where I implemented six popular sorting algorithms to visualize on a random array.

## Experience

### JP MORGAN CHASE

Jersey City, NJ

#### Associate Software Engineer II

January 2023– Present

#### Software Engineer I

December 2021 – December 2022

- Created multiple full-stack web dashboards using React, Next.js, PostgreSQL and Tailwind CSS which are being used internally to detect usages of other internal applications.
- Designed and implemented RESTful APIs using Node.js, Express.js, and MongoDB.
- Led migration of several internal web applications from static HTML, to modern React frameworks such as Next.js.
- Conducted code reviews and provided technical guidance to junior developers.
- Collaborated with designers to create pixel-perfect user interfaces and improve user experience.
- Managed cloud infrastructure on AWS, including EC2 instances, S3 buckets, and Lambda functions.
- Owned internal employee experience by partnering with the remediation team as well as the web development team by creating and maintaining an automated accessibility tool which has become an industry standard across JP Morgan Chase.
- Implemented and developed an accessibility scanning tool by working cross-functionally with the founder of third-party software company (Evinced), which benefited the company by enabling a more accurate and obtainable algorithm by using their software with Cypress and Selenium on JP Morgan Chase applications.
- Executed development of an application to view/create accessibility checkpoints which is being used firm-wide to help teams across the company remediate their web- app products.
- Created a system to allow employees across the firm to scan their web applications for accessibility issues which would then be pushed to our MongoDB database and rendered to a dashboard, thus making it easier for the team to monitor their progress for remediation.
- Educated team members by holding weekly training sessions to enhance their JavaScript and React skill-set which allowed them to contribute to more projects across sectors.
- Developed several Rest APIs for internal use using NodeJS, MySQL, and JavaScript to further enhance web applications across the firm.

### JP MORGAN CHASE

Jersey City, NJ

#### Software Engineer Intern

June 2019 – December 2021

- Performed quality assurance (QA) testing of browser-based applications to assess ADA (Americans with Disabilities Act) compliance. Compliance specifications are provided by WCAG 2.0. Used accessibility testing tools like JAWS, NVDA, Talkback & others to test accessibility and identify gaps.
- Supported JPMC Health and EAP services team, ensuring proper set up of mobile devices utilized in corporate clinics and exam rooms; created manuals and guidelines for the team members.
- Involved in test coverage reviews with stakeholders, assisted with creating test scripts and ADA defects in JIRA and ALM.
- Assisted with production support and incident management across multiple internally and externally developed applications in the Corporate Sector of JP Morgan Chase.

## Education

### MONTCLAIR STATE UNIVERSITY

Montclair, NJ

B.S. Computer Science

## TECHNICAL SKILLS

- Proficient:** React, Next.js, TailwindCSS, MongoDB, HTML, CSS, JavaScript, NodeJS, TypeScript, AWS, MySQL, Git, Java, Selenium, Cypress, Jira, Adobe Workfront, Confluence
- Knowledgeable:** JWT, PostgreSQL, React Native, C/C++