

# Richard Cohen

Software Engineer

## Contact

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## Skills

System improvements

Database programming

Performance Improvements

Client Requirements

Transportation Management Systems

Experienced Full-Stack Developer well-versed in API's, JavaScript, React, GraphQL, Node.js, and diverse databases, demonstrating a track record in software engineering and project management. Proficient in transforming intricate requirements into practical solutions, amplifying system performance, and elevating user experience. With a keen problem-solving aptitude and adaptability in collaborative team settings, I am committed to furthering my career as a software engineer. My aim is to meld my extensive expertise, robust educational background, leadership acumen, and a desire to lead and remain flexible within an innovative team. This is driven by my ambition to create a collaborative environment that fosters collective success.

## Technologies

TypeScript, Nodejs, React, GraphQL, MS SQL, Postgres, MongoDB, Lens, AKC, HTML, CSS, Postgres, MSSQL, MongoDB, SQLite, DynamoDB, MySQL, AWS - Amplify, AppSync, Wrike, Git, Gitlab, Visual Studio Code, Agile Project Management, ORM including Objection, Prisma and TypeORM, Mocha, Jest, Cypress, New Relic, Apollo Server, Apollo Federation, Docker

## Work History

2024-01 -

Current

### Senior Software Engineer

*Mastery Logistics Systems, Remote*

- Worked with large and complex distributed architecture
- Managed multiple Micro-Services
- Apollo Federation
- Created Dashboards with New Relic
- Wrote Unit Tests with Mocha
- Wrote E2E tests using Cypress for Front-End application
- Participated in Daily Standup Meetings and sprint planning
- I was responsible for reviewing Pull Requests for both state side and international teams to ensure code was strongly typed, easy to read, highly efficient and tech-debt free

- Optimized GraphQL queries and mutations to ensure lowest possible latency
- Performed load testing using K6
- Created detailed documentation for new features in Confluence
- Worked with Kafka as message broker between micro-services
- Utilized multiple databases including: MongoDB, MS SQL Server and Postgres
- Utilized Git for version control and CI/CD

2021-01 -  
2023-12

## Software Engineer

### *4th Down Solutions*

- Spearheaded the development and maintenance of a GraphQL API using Node.js and Apollo Server, catering to thousands of users across Fortune 500 companies in a learning application context
- Expertly managed PostgreSQL databases, ensuring robust, scalable backend solutions for high-traffic environments
- Implemented Role-Based Access Control (RBAC) and advanced data control mechanisms, fortifying data security and user access management
- Orchestrated the integration of the frontend and PostgreSQL database through the GraphQL API, enhancing data retrieval efficiency and user experience
- Developed and maintained the system as a microservice architecture, focusing on modularity and easy scalability
- Collaborated closely with R&D and Frontend teams, translating requirements into technical solutions and maintaining seamless communication between stakeholders
- Leveraged GitLab for version control and Wrike for project management, streamlining development workflows and enhancing team productivity
- Improved system performance and load time by 8% by using data loaders and optimized database indexing
- Crafted a tailored Node.js application, encapsulated within a Dockerized image, to

conduct comprehensive black-box testing for new client application deployments

- This facilitated automated validation of new features based on business logic and front-end specifications
- Application effectively simulated user interactions, ensuring seamless functionality and performance of newly integrated features
- Leveraged Amazon Web Services (AWS) suite, including Amplify, AppSync, DynamoDB, Cognito, and Lambdas to implement serverless functionality.

2018-01 -  
2021-01

## **Student Mentor**

*Woz-U*

- During my tenure at Woz-U, I had the privilege of profoundly influencing the lives of numerous students, fostering their growth through comprehensive teaching and mentorship across an array of cutting-edge technologies.

2016-01 -  
2018-01

## **Full Stack Developer**

*C&H Construction*

- Spearheaded a small development team, orchestrating task allocation and optimizing workflow for a spectrum of web-based projects, championing meticulous organization and efficiency
- Engaged in collaborative whiteboard meetings, actively contributing insights and strategies to drive innovation and project refinement
- Revamped the internal web application by leveraging PHP, custom WordPress solutions, and MySQL, elevating its functionality to efficiently manage take-off bids and cost estimations for new construction endeavors
- Engineered a streamlined user experience throughout the entire application, ensuring intuitive navigation and enhanced usability for improved operational efficiency
- Increased application performance and load times by over 10% by optimizing the database.

2014-01 -  
2016-01

## **Full Stack Developer**

### *Lipsey Logistics Worldwide*

- At a leading transportation firm, I managed a significant MSSQL database and executed the migration of a legacy ColdFusion application to React
- My role extended to crafting dynamic live dashboards, automating processes, and contributing to application documentation while fostering agile collaboration in team meetings
- Managed a significant MSSQL database while maintaining and eventually converting a legacy ColdFusion application to the modern React framework
- Designed and developed live dashboards tailored for multiple departments, enhancing real-time data visibility and decision-making processes
- Seamlessly integrated dashboards into the Transportation Management System (McCleod), ensuring efficient and unified access to critical information
- Tracked employee performance using specialized custom reporting tools, contributing to better insights and decision-making
- Automated email reports based on real-time events, leveraging SSRS for efficient and timely communication
- Engineered a bespoke 'lane' optimization application to facilitate potential bids, demonstrating a commitment to streamlining operational processes
- Utilized Visual Basic to automate accounting reports within MS Excel, optimizing reporting processes for the accounting department
- Also authored comprehensive documentation for various applications developed
- Actively participated in weekly team meetings, employing agile methodologies to foster collaboration, streamline workflows, and ensure project alignment and success
- Increased application performance and load times using stored procedures and advanced database indexing.

2012-01 -  
2014-01

## Full Stack Developer

### *Visiture*

- Played a pivotal role within the development team, contributing significantly to the expansion of eCommerce brands by leveraging specialized internal software
- Specialized in enhancing brand visibility and growth through PPC Management, providing comprehensive eCommerce Consulting encompassing SEO strategies, and spearheading Conversion Rate Optimization initiatives
- Actively engaged in collaborative team meetings involving upper management and fellow developers, fostering a unified and closely-knit environment conducive to innovation and synergy.

2009-01 -  
2011-01

## Full Stack Developer

### *UPS Corporate Headquarters*

- Collaborated within an expansive team, engaging in multiple ColdFusion projects, seamlessly interfacing with the MS SQL Database to deliver sophisticated solutions
- Crafted intricate SQL Queries employing stored procedures and functions, ensuring optimal data manipulation and retrieval
- Utilized Data Transformation Services adeptly, orchestrating the normalization of data from our expansive warehouse into meticulously organized relational database tables
- Proficiently employed versioning control tools, orchestrating seamless code deployment from development to production environments for enhanced operational efficiency
- Spearheaded the creation of comprehensive documentation for ongoing application development, ensuring clarity and transparency in project processes
- Collaborated closely with the QA team, conducting rigorous testing to guarantee the flawless performance and functionality of applications
- Actively participated in weekly cross-departmental meetings, contributing insights to facilitate efficient

and effective product design and development processes

- Increased application performance and load times using stored procedures and advanced database indexing.

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## Education

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### **Software Developer Certificate**

*Coder Camps / Woz U - Online*

### **Computer Science**

*Dekalb Community College*

### **Computer Science & Business**

*University of Alabama*