

# Brian Carela

## Software Engineer

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Profile: <https://www.briancarela.com/>

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Seasoned software engineering educator with a strong background in full-stack JavaScript development, Python programming, and expertise in JavaScript, React, Node.js, MongoDB, and TypeScript technologies. Over seven years of experience instructing and guiding students in mastering these languages and frameworks. Now seeking to transition from teaching to a hands-on role as a software engineer, eager to apply my extensive knowledge and practical skills to contribute meaningfully to dynamic development projects and collaborative teams.

### Skills:

React.js | Typescript | Node.js | JavaScript | Python | Ruby | SQL | REST API's | Express.js | HTML | CSS | GCP | AWS

### Professional Experience:

#### Noble Desktop, New York, NY

Nov 2022 - May 2024

##### Software Engineer – Lead Instructor

- Delivered comprehensive instruction in software engineering concepts, with a focus on full-stack development using technologies such as JavaScript, TypeScript, React.js, Node.js, Python, and Ruby.
- Developed and facilitated hands-on projects and assignments to reinforce learning objectives and foster practical skills in API development, front-end and back-end development, and database management.
- Mentored and supported students in honing their problem-solving abilities and fostering a deep understanding of software engineering principles.
- Collaborated with colleagues to continuously update curriculum materials and adapt teaching methodologies to reflect industry trends and best practices.
- Built 6 months' worth of curriculum for students including "Space Mission", an application that ran an API to pull photos from the ISS and NASA's database. This project was built on React.js with MongoDB, building REST API's, which provided full CRUD capabilities.
- Taught class to build a PokeDex, which showed how to create a React app, store data in a database, and use React hooks.

#### The Knowledge House, Bronx, NY

Mar 2018- Feb 2020

##### Software Engineer – Instructor

- Delivered immersive instruction in software engineering principles, emphasizing full-stack development using modern technologies such as Javascript, React, Node.js, PostgreSQL, and Python.
- Engineered and facilitated hands-on projects and dynamic coding challenges to enhance practical skills in API development, front-end and back-end frameworks, and database management.
- Spearheaded mentorship programs, providing one-on-one and group support to foster students' problem-solving skills and in-depth understanding of software development lifecycle.
- Collaborated with fellow instructors to design and update curriculum materials, ensuring alignment with industry best practices and the latest technological advancements.
- Developed engaging lesson plans tailored to students' interests, enhancing engagement and retention through practical applications like building social media platforms and interactive web applications.
- Demonstrated expertise in server and database construction, guiding students through the development of scalable web applications and robust backend systems.
- Played a pivotal role in professional development initiatives, mentoring new educators and sharing best practices for effective teaching and student engagement.