

# Zach Barbre

Software Developer

Atlanta, GA | 404-245-1997

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Front-End / Full Stack Software Developer with a love for solving novel problems and the ability and desire to learn new technologies as needed. Licenced Professional Engineer with experience leading small engineering teams and working with partners to produce high quality building designs.

## Software Development Skills

- Debugging, JavaScript, Python, React, Redux, Svelte, D3.js, Node.js, Express, PostgreSQL, CSS, SASS, Bootstrap, Bulma, HTML, AWS, git

## Software Development Portfolio

**Electronic Case Reporting** | Demo available on request

February 2021

- Tech Lead for a single page data visualization application for displaying facility and jurisdiction electronic case reporting capabilities for COVID-19. Visualizations include interactive maps, filters, charts and data tables.
- Responsibilities included front end architecture, design, development and API design and development. Worked with a designer to bring wireframes to life. Built .net middleware to serve data from the MSSQL database.
- Front end built using JavaScript, D3.js, Canvas API, Webpack, HTML and SASS. API built using C# and ASP.NET.

**Covid Data Tracker** | [covid.cdc.gov/covid-data-tracker/](https://covid.cdc.gov/covid-data-tracker/)

May 2020

- Member of a large, fast paced development team building the CDC's official web app for maps and charts tracking cases, deaths, and trends of COVID-19 in the United States.
- Responsibilities included building the landing page, status bar, demographics tabs, and forecasting tab.
- Built using JavaScript, D3.js, Bootstrap, Webpack, HTML and SASS.

**drinkcast.live** | [drinkcast.live/](https://drinkcast.live/) | [github.com/ZachBarbre/drinkcast-client](https://github.com/ZachBarbre/drinkcast-client)

May 2020

- Member of a 4-person development team building a video web app with happy hour games.
- Responsibilities included the server and client side webRTC functionality and the create bar / join bar pages.
- Built with React, OpenTok, Node.js, Express and PostgreSQL.

## Professional Work Experience

Peraton contracted to CDC/GRASP | Software Developer | Atlanta, GA

May 2020 – Present

- Promoted to Tech Lead on a new internal greenfield project (Electronic Case Reporting) based on performance while working on COVID Data Tracker.
- Front End Developer building large external facing external facing and small internal facing applications in JavaScript, HTML and CSS.
- Participated in the development, code review and debugging of a fast paced, high profile web app for the CDC Emergency Operation Center's response to COVID-19. (COVID Data Tracker)

McKenney's Inc | Project Engineer | Atlanta, GA

August 2016 – November 2019

- Designed mechanical and plumbing systems of high performance buildings in Atlanta for a Mechanical Contractor.
- Was responsible for the building design from conception to building turnover. Managed multiple shareholders' interests including Owners, Architects, General Contractors and McKenney's construction Project Managers.
- Mentored Assistant Project Engineers and CO-OP students in engineering methodologies and best practices.

Ross-Bain Green Building | Senior Energy Modeler | Atlanta, GA

February 2016 – August 2016

- Led the energy modeling efforts for multiple buildings that have received LEED accreditation.

Leppard Jonson and Associates | Mechanical Engineer | Tucker, GA

August 2010 – February 2016

- Promoted to lead small teams of engineers designing commercial mechanical, electrical and plumbing systems.
- Worked with Architects to produce high quality building designs and oversaw the Contractors to ensure a quality product was delivered to the building owner.

Sunbelt Engineering Group | Mechanical Designer | Kennesaw, GA

December 2006 – August 2010

- Designed building mechanical and plumbing systems in a fast paced environment.

## Education

Georgia Institute of Technology | B.S. in Mechanical Engineering | Atlanta, GA

2002 – May 2006

DigitalCrafts | Certificate in Software Engineering | Atlanta, GA

January 2020 – May 2020

- Full-time intensive software engineering training program covering full-stack development. Technologies learned include JavaScript, Python, and front end frameworks like React and Redux. Server-side technologies learned include Node.js, Express, and PostgreSQL.

**Additional Certifications:** Registered Professional Engineer (Georgia PE036590)