

# Michael Kuek

Software Engineer | Atlanta, GA | (678) 622-4430

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Civil engineer by day, aspiring full stack engineer by night. My passions for problem solving and programming have led me down a path to never stop learning. Traffic engineering is a fast-paced environment; and my experience has allowed me to develop multitasking and problem solving skills that necessitate me to diagnosing and solving issues quickly and efficiently. My adaptability to any problem will translate well to web development, where tech can change seemingly overnight.

## Software Development Skills

- Backend: JavaScript, Node.js, Express
- Frontend: HTML, CSS, SCSS, React, Redux-Toolkit, React-Router, Bootstrap, Bulma, Material UI
- Databases: Firebase, MongoDB, PostgreSQL, MS Access, MySQL
- DevOps: Heroku, Netlify, AWS
- Tools: Git, Github, GitKraken, Visual Studio Code, Postman, Beehive, NPM, socket.io, passport.js

## Education

DIGITAL CRAFTS | Full-Stack Software Engineering | Atlanta, GA

Oct 2021– Apr 2022

GEORGIA INSTITUTE OF TECHNOLOGY | M.S., Civil Engineering | Atlanta, Georgia

Jan 2014- May 2015

GEORGIA INSTITUTE OF TECHNOLOGY | B.S., Civil Engineering | Atlanta, Georgia

Aug 2008-May 2012

## Software Development Portfolio

TicketGeek ([live](#), [code](#)) | Team based project (Front End)

Jan 2022

- Event searching app for music related events
- Responsible for integration with SeatGeek API requests to HTML elements
- Fetches artist data from separate TicketMaster and SeatGeek APIs.
- Data responses are compiled and organized for price comparison between the two ticket providers
- App built using JavaScript and bootstrap

Chat-Worm live messaging app ([live](#), [code](#)) Team based project (Fullstack)

Feb 2022

- Two-member team created messaging app that allows users to send and receive chat-room invitations
- Responsible for database setup and integration and coordination between front end elements
- Chat messages are sent and received live on the single-page application via socket.io connections
- Messages, chat-rooms, and user data are stored to cloud based MongoDB Atlas platform
- App built using JavaScript, HTML, CSS, Express, Node.js, socket.io, EJS templating, and MongoDB

Strava-Board ([live](#), [code](#)) Solo project (Frontend)

Mar 2022

- React app that allows users to visualize workout data from Strava, a popular fitness tracking app
- Dashboard fetches user data (OAuth) and displays historic workouts, trends, and relevant profile information
- Interactive routing to display in-depth individual workouts and profile milestones
- Built in color theming implemented using React-Redux
- App built using React, Redux-Toolkit, React-Router, SCSS, Material UI, MUI Charts and Tables

Meals-with-friends ([live](#), [code](#)) Solo project (Full Stack)

Apr 2022

- Clone of popular meal-planning website, MealTrain.com
- Organize and plan meal deliveries for friends or family in need of support such as new parents or extended illness
- Custom API used to store data and display user and meal event information
- User and meal information, image hosting, and authentication utilize Firebase platform
- App built using React, React-Router, Material design, Firebase, and deployed via Netlify

## Professional Work Experience

Jacobs Engineering | *Traffic Engineer* | Atlanta, GA

Apr 2018 - Present

- Leveraged historic traffic signal data (ATSPM) to create signal timing plans remotely and without the need of traditional timing methods such as volume counts or timing software
- Created reporting system to identify poorly performing intersections. System allowed for further troubleshooting and issue identification
- Coordinate between client and consultants to ensure timely project delivery

South Eastern Engineering | *Traffic Specialist* | Marietta, GA

Jan 2016 - Apr 2018

- Maintained 400,000 entry database for road closures throughout Georgia via Microsoft Access and SQL tables
- Created automated, custom excel macros (VBA) to transfer construction data into user friendly reports and tables
- Provided on demand reporting for traffic conditions, such as crash data, construction events, and travel time information for GDOT projects