

# Michael Kuek

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

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I am a civil engineer by trade with a recent transition into software engineering. My passion for problem solving and programming has led me to a path of continuous learning. Working in a fast-paced environment like traffic engineering, I have developed strong multitasking and problem-solving skills, enabling me to diagnose and solve issues quickly and efficiently. My adaptability to dynamic challenges has translated well to web development, where technologies can change seemingly overnight. My experience in consulting allows me to collaborate with any team and exceed client expectations.

## 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
- Tools: Python, Powershell, C++, Git, Github, GitKraken, VS Code, Postman, Beehive, NPM, Pandas, Agile, Kanban, Scrum, AWS

## Education

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

Oct 2021– Apr 2022

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

Jan 2014- May 2015

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

Aug 2008-May 2012

## Professional Work Experience

Experient Group | *Software Engineer* | Atlanta, GA

Jul 2022 - Present

- Deployed custom automation scripting process for client to maintain large-scale, business critical email distribution groups on AzureAD. Development written in Powershell.
- Developed python package to compare potential new software implementation for internal processes. Process compared query results from existing Service Now integrations with new AWS Kendra to quantify quality of results. Results to be used by client stakeholders for cost/benefit analysis.
- Restructured automated Powershell script to review and assign Microsoft licenses to 3000+ company-wide staff members. Script integrates client's internal API with Microsoft Graph API to update or assign appropriate licenses according to staff business groups. Integration reduced existing script times from 6 hours to 30 minutes.
- Implemented python package to integrate internal API with Salesforce API for reporting purposes. Package replaced outdated processes to ensure Salesforce data correctly reflects accurate business information.
- Converted existing automated script package on remote desktop to custom serverless AWS lambda. Automation utilized python lambda layer and custom python modules. Reduced technical debt and improved runtime by 85%

Jacobs Engineering | *Traffic Engineer* | Atlanta, GA

Apr 2018 - Jun 2022

- 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
- Created automated, custom excel macros (VBA) to transfer construction data into user friendly reports and tables
- Maintained 400,000 entry database for road closures throughout Georgia via Microsoft Access and SQL tables

## Software Development Portfolio

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

Feb 2022

- 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
- 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 for meal planning 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