Michael Kuek

Software Engineer | Atlanta, GA | (678) 622-4430
github.com/mkuek | linkedin.com/in/michaelkuek | mkuek.github.io/ | mkuek123@gmail.com

I am a civil engineer by trade and recently converted software engineer. 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 years of engineering and client-facing experience has allowed me to develop multitasking and problem solving skills that necessitate me to diagnose and solve issues quickly and efficiently. My adaptability to any problem translates 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: Python, Powershell, C+, Git, Github, GitKraken, Visual Studio Code, Postman, Beehive, NPM, pandas

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

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. 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 Package replaced outdated process to ensure Salesforce data correctly reflects accurate business information.

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
- 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