

CALEB CRUM

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SUMMARY

Level-headed, easy going, and inquisitive, I'm a Full-Stack Web and Mobile Developer, who leans toward front-end work, is successful in collaborative team environments and enjoys producing creative long-term solutions. I have proven experience developing web applications using all technologies in SERN and MERN stacks.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Node.js, SQL, HTML, CSS,

Applications: React.js, Next.js, React Native, Express.js, Handlebars.js, MySQL, Sequelize, Prisma, Supabase, GraphQL, MongoDB, Mongoose, FaunaDB, SendGrid, Git, GitHub, Heroku, Vercel, D3.js, Visx, Bootstrap, Bulma, Materialize, Tailwindcss, JQuery

PROJECTS

GEOPH VB | [Android App](#)

- Companion mobile app and web services for Vaccine Buddy hardware (geospatial data collection devices)
- Tools / languages used: React Native, TypeScript, Node.js, SQLite, Turso, React
- Features:
 - This app integrates with GEOPH Vaccine Buddy hardware, a dedicated data collection tool designed to support health workers in tracking and monitoring vaccine distribution and storage during field operations.
 - Set up health campaigns efficiently by scanning QR codes, streamlining the process and minimizing setup errors.
 - Connect wirelessly to GEOPH Vaccine Buddy devices to access field data without the need for physical connections.
 - Operate reliably in remote areas with limited connectivity, storing data locally until a connection is available.
 - Connect to and configure Vaccine Buddy device properties depending on campaign specifics.

US Cancer Statistics Data Visualization Tool | [Deployed Application](#)

- A data visualization application for the US Cancer Statistics program.
- Tools / languages used: React, JavaScript [D3.js](#), Visx, Bootstrap
- Features:
 - Developed an interactive web-based data visualization tool for the United States Cancer Statistics (USCS), enabling public access to official federal cancer incidence, mortality, survival, prevalence, trends, and stage distribution data from CDC and NCI sources.
 - Implemented dynamic geographic visualizations, including color-coded choropleth maps displaying cancer rates at national, state, county, and congressional district levels, with granular filters for cancer sites, demographics (age, race/ethnicity), and time periods.
 - Designed responsive charts, tables, and trend graphs for key metrics, rankings, and at-a-glance statistics, enhancing data exploration for researchers, policymakers, and the public.
 - Created modular user interfaces (Explore, Compare, Special Topics, and Early Detection/Risk Factors modules) allowing side-by-side comparisons, special population analyses (e.g., American Indian/Alaska Native), and integration of behavioral risk factor data from BRFSS.

EXPERIENCE

- Full-Stack Developer** 2024 – Present
GEOPH - Geospatial Public Health Atlanta, GA
- Developed an Express back-end to organize and collect vaccine campaign data.
 - Created a React web app to make vaccine campaign configurations for GEOPH's custom hardware.
 - Developed a React Native app that acts as a bridge between GEOPH hardware and back-end services.
 - Built a Native Android app with Java to update firmware on GEOPH hardware.
- Applications Developer** 2023 – 2024
Centers for Disease Control and Prevention / DRT Strategies Atlanta, GA
- Full Time Government Contractor for CDC/ATSDR
 - Developed Custom Data Visualization Applications with D3.js and Visx for the Geospatial Research, Analysis, and Services Program (GRASP)
 - Primarily worked on the US Cancer Statistics Data Visualizations Application
- Full-Stack Web Developer, Part Owner and Managing Member** 2022 – 2023
Paperless Fundraisers, LLC Rock Hill, SC
- Full-Stack Web Development
 - Database Design
 - UI / UX Design
- Full-Stack Web Development Boot Camp Instructor** 2020 – 2024
edX / Vanderbilt Charlotte, NC
- Educate students in HTML, CSS, JS, Node.js, React, SQL, and other web technologies
 - Monitor and assist students in small group environments
 - Maintain Class Git Repository
 - TA from 2020 - 2023
 - Lead Instructor 2023 - Present
- Emergency Medical Technician** 2014 – 2019
Mecklenburg Emergency Medical Services Charlotte, NC
- Responded to medical emergencies and delivered patient care, support, and evaluation on scene and during transport to the hospital.
 - Assessed the patient, determined the proper emergency care, and administered treatment.
 - Transported patients safely between hospitals and care facilities.

EDUCATION

Bootcamp Certificate: UNCC Full-Stack Web Development, Charlotte, NC
A 24-week intensive program focused on gaining technical programming skills in HTML5, CSS3, Javascript, JQuery, Bootstrap, Node Js, MySQL, MongoDB, Express, Handelbars.js & ReactJS.