

# George Mandis

## Full Stack Developer & Consultant

Google Developer Expert  
Speaker and Mentor

## Independent Full Stack Development & Consultancy

*SnapTortoise* • [snaptortoise.com](http://snaptortoise.com) • 2006 to Present

Freelance development & consultancy business focused on full stack web development, extending and designing application infrastructure, maintenance, custom integrations and optimizations. Clients include professional sports teams, national nonprofits, App Store apps, startups & agencies.

### Recent Projects (2018 to present)

#### **Cleaning the Glass** • [cleaningtheglass.com](http://cleaningtheglass.com)

Subscription-based site presenting and breaking-down advanced stats for the NBA.

- Substantially improved site performance up to 10x on team stat pages through optimizing caching schemes
- Refactored code to make the stat table components more reusable across different sections (teams, players, games)
- Created data collection/scraping tools that pulled from unpredictably formatted sources
- Fixed & designed new interfaces to work across multiple browsers and systems

*Django  
Python  
JavaScript  
Vue.js  
Node.js  
Puppeteer*

#### **Wanderwell Travel Insurance for Good** • [gowanderwell.com](http://gowanderwell.com)

Travel-insurance provider startup and certified B-Corp.

- Extended current system by adding an affiliate feature to facilitate cross-promotions with Wanderwell's partners and correctly credit payouts on the backend through GeoBlue's Health API
- Debugged and amended insurance calculation rules over time on the frontend and backend as insurer's requirements changed and edge cases were uncovered
- Streamlined DevOps situation to lower costs, added a blog powered by Ghost and Implemented design changes to accommodate mobile devices and requested updates

*Django  
Python  
JavaScript  
Angular  
Node.js  
GeoBlue Health API  
Digital Ocean*

#### **GO Box** • [goboxpdx.com](http://goboxpdx.com)

App-based service on iOS and Android for managing reusable food trays in Portland, Oregon and San Francisco.

- Provided administrative support for the server-side component of the service, fixing renewal and checkout bugs and ensuring smooth operation
- Improved the administrative interface to allow for better customer account management and improved logging and error message tracking to better assess bugs and edge cases
- Modularized the server code in anticipation of being able to launch in additional cities

*Django  
Python  
PHP  
JavaScript  
Google Cloud Platform*

#### **LateralScale** • [lateralscale.com](http://lateralscale.com)

Service for phone-based advertising campaign tracking and monitoring.

- Improved spam call blocking (90+%) on the Twilio API using add-ons and heuristics based on conversations with the client and log audits.
- Implemented the solution using serverless technologies (AWS Lambda) at my suggestion, allowing easier integration with their legacy PHP system and the Twilio API
- Moved additional systems and processes over to AWS Lambda to lower operation costs and improve flexibility for a rebuild down the road

*Node.js  
PHP  
JavaScript  
Svelte.js  
Twilio API  
AWS (Lambda, EC2, Route53, S3)*

## **Get Routey** • [getroutey.com](http://getroutey.com)

Custom poster creation service for runners and athletes. Users could design their race posters online using exercise data from their recorded Strava activities and order prints all through a seamless interface.

- Idea was scoped and implemented within budget and requested constraints (Namely that these pre-existing services were used: Shopify, Strava, Printful)
- Polymer Project was used to make cross-browser compatible web components for the editor that were used across multiple subdomains and in different contexts.
- Improved upon a previously implemented version in PHP and the Canvas API by making the poster editor mostly SVG-based. Final print-ready PDF was rendered using the SVG file and Puppeteer greatly reducing the inaccuracies between design and print, which had been a problem.

*Node.js  
Puppeteer  
Polymer Project  
Shopify API  
Strava API  
Printful API*

## **Additional Clients & Projects**

### **Portland Trailblazers Basketball**

Basketball applications developer for front office and coaching staff. Developed tools to assess player production and performance in the draft and during the season.

### **SAGE Advocacy & Services for LGBT Elders**

General consulting and development assistance to help implement new features and design requests in cooperation with several agencies.

### **World Wildlife Federation**

Collaborated with agency to develop and deliver a site showing WWF's sustainable seafood initiatives and customized forms to accept new applicants.

### **Tuality Healthcare**

Oversaw the transfer of their website network featuring 30+ hospitals and clinics in multiple languages from an abandoned legacy CMS to a more modern system as a stop-gap.

### **University of Michigan Nursing School**

Created a website to facilitate a hearing-loss study in farm youth using preexisting online games. Participants were tracked using ethical standards and an interface was made for those designing the study to observe the results.

## **Additional Experiences**

### **Educational**

#### **Recurse Center (Participant)**

*January to April 2020*

Participated in a 12-week, self-directed educational retreat in New York City, collaborating with other developers and exploring new & interesting web technologies including **WebRTC**, **Web Cryptography API**, **TensorFlow.js** and **Svelte.js**. Additionally I led workshops centered around off-beat and creative applications for JavaScript including JS on hardware, the WebMIDI API and P5.js.

<https://recurse.com>

#### **Mount Hood Community College**

*Instructor and Curriculum Developer (2015 – 2018)*

Developed and taught three 10-week web development “bootcamp” cohorts at Mount Hood Community College via a local grant for a diversity-focused program designed to introduce unemployed and underemployed individuals in under-represented communities in Portland, Oregon to programming and explore new career paths.

<https://mhcc.edu/coding>

## **Speaking, Writing & Workshops**

### **Conference Presentations**

Prepared and presented at 25+ conferences all over the world including Microsoft Build 2019 (Seattle, WA), FullStack London 2017 & 2018 (London, UK), HolyJS 2017 (St. Petersburg, Russia) and RuhrJS 2019 (Bochum, Germany) among others. Topics were all JavaScript-focused and largely focused on creative, fun applications including:

- **More Than Music with WebMIDI** (a primer on hardware interactions through the WebMIDI API)
- **Self-Portraits in JavaScript** (And introduction to facial recognition approaches with JavaScript)
- **JavaScript for Artists** (And overview of many cutting-edge browser APIs and how we can build interesting art with them)

<https://george.mand.is/talks>

<https://www.youtube.com/playlist?list=PLsTcGz22ZXo4omxUbGHooU8iaqyhMLG77>

### **Workshops**

Designed and led a several-hour workshop on three different occasions at Teardown 2018, SPA Software in Practice 2018 and LibertyJS 2019.

*JavaScript + MIDI + Microcontrollers Workshop*

<https://libertyjs2019.mand.is/>

### **Articles**

*Dip Your Toes Into Hardware With WebMIDI*

<https://css-tricks.com/dip-your-toes-into-hardware-with-webmidi/>

## **Contact**

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