

# Colin Woods

Digital Solutions Consultant

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London, UK

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*“I am an experienced developer and tech consultant specialising in intelligent mobility and geospatial applications. With over 15 years experience developing innovative technology solutions for government & private organisations looking to influence travel behaviour and improve access to mobility. I provide technical advice, solutions architecture, cloud management and full stack development skills. I am strongly immersed in the JavaScript world and with geospatial/mobility software and APIs.”*

## WORK EXPERIENCE

**Digital Solutions Consultant, Steer May/2004 - present** - London, UK

Global business consultancy working across cities, infrastructure and transport

### Achievements

- Developed Steer's journey planner platform resulting in over £500K worth of work
- Led the development of several transport award winning projects including the 2015 Rugby World Cup Journey Planner, City of Dundee's and Brighton & Hove Journey Planners
- Reduced several client's Google API costs, one by \$20K per month by refactoring existing code and implemented alternative solutions to Google Maps APIs (HERE and OTP)
- Developed API unifying several disparate transit/location services and datasets whilst maintaining referential integrity powering website and app to serve up to 30K users per day

### Duties

- Help transform client needs into viable digital solutions
- Scope project requirements (Outline methodologies and architecture for application)
- Maintain legacy projects and provide technical advice & support for proposals
- Manage cloud infrastructure (GCP, Digital Ocean, Netlify, Bitbucket)
- Manage and collaborate with subcontractors
- Build component led UIs (Vue/Vuetify/Svelte/Bootstrap/Bulma)
- Design and build RESTful CRUD APIs (Swagger/Laravel/Express/MySQL)
- Utilise mapping and visualisation UI libraries (Leaflet/Mapbox/GMaps/D3/ChartJS)
- Work with location APIs and datasets (Google/HERE/MapQuest/Traveline/Darwin/Naptan/GTFS)

- Typical project includes: Journey Planners, Realtime/Schedule Apps, Transit mapping applications, Departure Display Boards, Geospatial Engagement platforms, Insights Dashboards, Travel surveys, Gamification Travel Challenge Apps, Station Audit Apps.

**Full Stack Developer, EBC** - Dec/1999 - Sep/2002 - Manchester, UK

- Flash developer and Classic ASP/MSSQL for building e-learning products
- Helped rebuild the e-learning core to consume content via xml

**Previous Experiences:**

- Contracted across the UK & NZ building e-learning products and websites.
- Solely built e-learning platform for Auckland city authority (HTML/ASP/MSSQL)
- Developed several e-commerce applications for small businesses/sole traders.

SIDE PROJECTS

**Football Manager:** Website for players to sign up to my weekly football games.

**Lagos Travel App:** Google Maps powered mobility web app for Lagos.

**Festival Acts Picker:** App to allow fans to pick musical acts they want to see at festivals

**Local Acts Finder:** App to find local bands in your area

**Last Stop Taxi Share:** App for travellers leaving the same station to share taxi ride for last leg

EDUCATION

**1999 B.Eng (Hons) in Chemical Engineering, Heriot-Watt University**

TECHNICAL SKILLS

**Frontend:** JavaScript/ES6/ES2017, Vue, Vuetify, Svelte, Leaflet, D3, ChartJS, CSS3/SASS/BEM, Bootstrap, Bulma, Webpack, (GIT/Gitflow/Trello/JIRA/Zoho/SCRUM/Kanban)

**Backend:** Node, Express, Fastify, Feathers, PHP, Laravel, MySQL, Python, Bash, GIT, Cordova,

**Mapping/Mobility:** Google Maps APIs, Mapbox APIs, HERE APIs, Geoserver, OpenTripPlanner

EXTRA INFO

I am a music lover and as well as attending a lot of gigs across London, I organise band nights at popular music venues for unsigned bands. Music is my number one companion in my programming world. I am also a keen 5-a-side footballer and organise a weekly game.