**How I deploy my full-stack projects for free.**

***Tech stacks to take your project off localhost and into production***

A picture containing indoor, close

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After hours of late-night hacking, you’ve finally arrived at a completed product — a glorious web app you can’t wait to share with the world. But… there’s just one small problem — you’re stuck on localhost :)

Building is fun, but what’s even more fun is being able to share your creations with the world. In this short article, I’ll share with you what technologies I’m using to go from localhost to production.

The technologies discussed in this article will be grouped into the following three categories:

1. [***Web application***](https://medium.com/@AliBuilds/how-i-deploy-my-full-stack-projects-for-free-e07bde56b389#351b) — client-side code (ex: React.js, Vue.js, etc.)
2. [***Backend server***](https://medium.com/@AliBuilds/how-i-deploy-my-full-stack-projects-for-free-e07bde56b389#f2ec) — server-side code (ex: Flask app, Node.js, etc.)
3. [***Database***](https://medium.com/@AliBuilds/how-i-deploy-my-full-stack-projects-for-free-e07bde56b389#0858) — storage for your data (ex: MySQL, PostgreSQL, etc.)

If you would like to see an example of these technologies used in a real application, feel free to check out a recent project I built called “[**raz-search**](https://github.com/Danial-Hussain/raz-search)”: a semantic search engine for podcast episodes on the show “How I Built This” by Guy Raz.

**Web Application**

As of late, I’ve really enjoyed building out small sites with Next.js. The framework allows for static site generation and server-side rendering, making web development a breeze. Here are what tools I’m using to deploy my apps.

1. [Vercel](https://vercel.com/) — the best developer experience for deploying your next web application. Vercel offers a range of features that simplify building such as deployment previews, serverless functions, and analytics.
2. [Netlify](https://www.netlify.com/) — a great Vercel alternative that also provides an easy interface for building and deploying web applications. I’ve found Netlify to be a little clunky compared to Vercel but definitely still gets the job done.

**Backend Server**

With frameworks such as Next.js and SvelteKit integrating server-side rendering, backend development is going through an interesting transformation. Nonetheless, if you’re looking to deploy a traditional REST API here’s my favorite option.

1. [Railway](https://railway.app/) — a few quick clicks and you’ve got a fully deployed backend service. They’ve built-in integrations for all your favorite frameworks such as Flask, FastAPI, and more. The free tier includes $5 in monthly credits and 512 MB of RAM.

**Database**

There are a plethora of options when it comes to selecting a database to use for your next project. Depending on your needs, you may want a SQL or NoSQL database. Here are a couple of options that offer generous free tiers.

1. [PlanetScale](https://planetscale.com/) — a MySQL serverless database platform that’s perfect for your relational data needs. The free tier offers 10GB storage, 1 billion row reads, and 10 million row writes a month.
2. [Upstash](https://upstash.com/) — a Redis database that can be used as a traditional database or as a robust cache. The free tier is capped at a 10,000 daily command limit.
3. [MongoDB Atlas](https://www.mongodb.com/atlas/database) — one of the most popular NoSQL databases. The free tier offers 512 MB of free storage.

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