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DIEGO ALEJANDRO DIAZ MATOUSEK

SKILLS

Microservice and web application development with JavaScript, React, Docker, PostgreSQL, and Python.

Strong familiarity with VSCode, git, and Linux environments.

Comfortable working across the stack and adapting to new tools and tech as needed.

EXPERIENCE

Correlation one, Remote — *Senior Engineer II*

June 2023 → Present

- Contributed with my front-end development skills in JavaScript, React, Node.js, CSS, and Django templating as part of a team driving major platform enhancements.
- Integrated Open edX as a micro-frontend within the existing learning platform
- Integrated our existing Auth0 instance and react project with Django and Open edX for user authentication
- Integrating Open edX components and coursework within the existing application for a seamless experience
- Extensive styling customizations across various Open edX modules like Open Response Assignments to match the user experience on both platforms
- Worked on an AI powered resume builder project to improve learners chances at getting jobs
- Worked on an outcomes report typescript web app and python server that helps us keep track of the learners of our different programs outcomes
- Worked on our training client to streamline assignment status tracking for the learners
- Worked on our expert client and python server to better track our learners status
- Improved our video and file upload flow by making it asynchronous which improved the user experience by letting them now of the actual status of their files
- Worked on a video recording experience which allowed users to record a video responses to questionnaires
- Helped develop a chrome extension to track job searching sessions for our learners

Dormify, Remote — *Software developer*

March 2023 → July 2023

- Worked at dormify as part of a team in charge of redesigning a new experience with a more streamlined checkout. With my javascript, css, and next experience I got to develop a couple of react components to show the sale items and a selector for the items variants. This was a short project and we got to improve the experience for new users.
- I also got to work on the server written in C# to update our marketing emails, we were previously using a now deprecated system and got to replace it with klaviyo. I got some hands on experience with klaviyo and their api, I got to write services to send marketing emails triggered by our backend.

Startgrid, Remote — *Software developer*

November 2021 → December 2022

- At Startgrid, I was given the opportunity by the CTO to participate in a company experiment. The goal was to develop an MVP within a four-week timeframe, as the company was looking to pivot its direction. Our experiment involved building a single-page application (SPA) that would capture and productize information from sustainable and ESG-oriented startups.
- To build the MVP, we utilized a technology stack that included Nextjs, Typescript, and React on the frontend, Go with Echo for the GraphQL backend, and MongoDB for data storage. Authentication was handled using Auth0, and we used HygraphCMS as our content management system.
- Our demo of the MVP was successful, and the company decided to prioritize the product as part of its pivot. Thanks to our emphasis on documentation and maintaining good coding practices, onboarding new developers to the project was relatively straightforward.
- However, we encountered some integration issues when the whole team began contributing to the same codebase. To address these issues, I focused on testing and implemented a CI/CD pipeline on GitHub Actions, along with E2E tests written in Playwright and Node.js, which helped to improve our overall code quality.
- Our successful pivot and the development and maintenance of a new SPA helped secure additional funding for the company.

OCM, Remote — *Software developer, Team lead*

July 2019 → November 2021

- As a member of a remote Agile team, I contributed to the development of a user CRM management system. Our primary objective was to improve the user experience when handling and tracking client information and requests, with our team leader overseeing the project.
- To achieve this, we developed a CMS system called Portal that enabled us to keep track of contracts with schools, detail of the mail sent to students such as, lettering, envelope type, and pamphlets. We also worked on creating a mobile-first experience on the frontend, with a particular emphasis on simplicity. This was built using NextJS, React, Apollo, JavaScript, Typescript, and Auth0.
- On the backend, we utilized Go with Gorm and GraphQL, which allowed us to quickly expand upon the frontend's needs, as well as MySQL and PostgreSQL for databases. This backend was hosted on GCP with Kubernetes and Terraform to orchestrate the microservices.
- To avoid using hard-to-interact-with legacy systems, namely Ektron and Siebel, we migrated some of the data needed to Portal.
- Through our efforts, we streamlined operations for teams like mail marketing, warehouse, and creative by consolidating their data into a unified Portal. Additionally, we automated numerous processes, enabling users to manage their time more efficiently and reduce manual efforts.
- During my work here I also contributed to the development and testing of a pipeline of serverless functions, hosted in GCP, called context-engine, which was written in Go, Typescript, and JavaScript. The primary purpose of this service was to analyze and clean up client spreadsheets and CSVs.
- By generating a cross-referencing golden record, this service provided our clients with cleaner and more insightful data about their target demographics.
- This data was stored in a combination of MongoDB, Datastore, and BigQuery.

EKUMEN, Remote — *Software developer*

October 2017 → August 2019

- Worked with a robotics company on their simulations team to improve their testing solution developing gazebo plugins with c++, restructuring the project, preparing the

simulation workspace on docker, and helping them jumpstart their jenkins workflow on AWS.

- Developed a react chatbot and firebase cloud function that aimed to humanize and simplify queries made to different police stations providing accurate and fast responses, stored in firestore, for the citizens in non emergency situations.
- Worked for a cloud-based robot management startup that aimed to simplify the infrastructure work to operate a robot company and organize the data from the robots. Migrated the straight html site to a jekyll template which helped us focus on the content instead of the html, on a token based signup process which helped control who got to use the product first, on a aws s3 upload solution which to upload robot replays and touched just a bit of MQTT for the transport and a bit of kinesis to manage robot logging.
- Worked with a robotics company to enable non-technical people to deploy a full stack on kubernetes. Development work included containerization and orchestration of web applications using Python and bash. We streamlined the process by setting up microservices to provide the needed configurations and used Jenkins to select the appropriate ones.

CBA S.A., Paraguay — *Software developer*

JANUARY 2016 → October 2017

- Integral part of the team that developed new software for a legacy CRM system
  - Contributed to architecture design
  - Frontend and backend development work
  - Some of the technologies used Django, Python, AngularJS, PostgreSQL
- Designed and developed a CRM facebook chatbot on nodeJS that interacts with an accounting-oriented ERP
- Full-stack development and deployment of several microservices to be consumed by other CRMs
  - Minio/S3 microservice to store and organize data.
  - USD/PYG exchange rate provider.
  - Truck scale reader for a land port

OTHER INTERESTS

Supporter and user of OSS and OSH.
In my free time I participate regularly in Game Jams, cook, play the bass, guitar and piano and also picked up gardening as a hobby during the pandemic.