Anup Poudel

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Profile

I am a software developer specialising in full-stack web application development, proficient in Python and TypeScript. What makes me distinctive is the fusion of my skills. Rooted in my background in astronomy, I possess an innate attention to detail, a capacity for logical problem solving, and a strong work ethic. I have an experience taking ownership on different levels, from implementing front-end components and API endpoints, up to building features end to end.

I first used Python and Fortran for the analysis of data from space telescopes during my university thesis project. Since then, I have predominantly employed programming as a tool for conducting data analysis in my research projects. Three years ago, I embarked on a transition to web application development. After a year of dedicated self-guided learning and skill acquisition, I transitioned into a new career path and joined Ambine Technologies in 2021 as a software developer. Unfortunately, my tenure at Ambine was abruptly halted by the company's shutdown in 2023 due to financial reasons.

I am currently seeking to join a company where I can leverage my skills effectively and engage in continuous learning to expand my knowledge. I aspire to be a member of a team that collaboratively works toward a shared objective, ultimately contributing to the success of projects.

Technical background

My go to tools are TypeScript and Python. I'm proficient using TypeScript on both front-end and backend, and capable of building a consistent type system allowing end to end type safety. I use TypeScript with React, VueJS and NodeJS. Being proficient in Python, I successfully use it with FastAPI and Django for developing backends. I was also exposed to the following tools and technologies:

DevOps: Docker, Kubernetes, Terraform, CI/CD (Github Actions), AWS (ECS deployment), DigitalOcean (DOKS).

Databases: PostgreSQL, MongoDB, MySQL
Software architecture: Micro-services, gRPC

Work experience

Ambine Technologies
12.2021 - 08.2023
Junior software developer(12.2021 - 08.2022)
Software developer(08.2022 - 08.2023)

Ambine provides a software solution that helps advertisers to automatically optimize budgets, schedule campaigns, uncover insights, and manage ads in LinkedIn. I first joined Ambine as a consultant and later became an integral part of the team. I carried out multitude of tasks which involved both frontend and backend development. My role in the company also involved feature ownership with iterative development.

Below are list of some features that I implemented in Ambine app:
   - Dashboard: For this feature, I had end-to-end feature ownership with iterative development approach. I implemented all widgets, designed the dashboard page, managed data fetching, and created API endpoints. This dashboard significantly improved the user experience and streamlined app navigation. It marked a crucial step in integrating the planned inbound sales for the app.
   - User onboarding: I had complete end-to-end ownership of this feature, which involved implementing both the backend and frontend components, along with the incorporation of a 3rd-party library as a plug-in.
   - Reporting tool: With this feature, users could conveniently access crucial metrics that assessed the performance of LinkedIn campaigns in a unified interface. I was responsible for implementing the frontend, which included designing all widgets and filters. This feature played a pivotal role in securing an official partnership certification from LinkedIn.
   - Ad Creator: At Ambine, I took part in a 2-day hackathon during which we created a tool for generating LinkedIn ads programmatically. I was one of the developers responsible for frontend development. Following the hackathon, this tool underwent further refinement and was subsequently integrated into production.
   - App usage preview functionality: This feature enabled users to access information about the usage of various tools within the app. I was responsible for implementing the entire frontend and a portion of the backend.
   - Custom password field with advanced password strength validation.
   - Custom phone number field with search by code or country name.
   - Context menu widget that was reused throughout the app.
In addition to feature development, I also focused on resolving bugs in

various sections of the application, enhancing test coverage, and improving test quality.

Tech stack:
TypeScript, Python and VueJS

Resimator Oy
01.2021 - 03.2021
Frontend developer

Resimator Oy was in the process of developing an app for businesses to host online webinars. During my three-month internship, I was responsible for conducting background research and testing Livechat integration for the application. I developed the entire frontend application using existing APIs, enabling administrators to communicate with their users via Livechat. This communication included sharing information about upcoming webinars and providing instructions for creating webinars.

Tech stack:
TypeScript and REACT

Personal projects

E-commerce:

A full-stack e-commerce web application entirely developed by myself. The user interface of the application can be accessed at https://lucid-lewin-704e07.netlify.app/. The server is hosted at https://e-shop-express.com and utilizes AWS cloud services for deployment. In addition to basic product browsing, search, sort and filter functions, the application has following features:

- Runtime data validation: The app uses Superstruct to validate data at runtime and throws appropriate runtime errors to the end users through the built in notification system.

- Notification system: The app also has a notification system which notifies users when something goes wrong while browsing through the app.

- Authentication system: The application has its own login system which is managed in the server using passport-jwt strategy of Passport.js. It uses access and refresh tokens stored in cookies for authenticating. The tokens are continuously reissued to provide additional security.

- Password reset: The application allows users to reset their passwords. When requested, the users will get a link in their email and they can follow the instructions to reset their password.

- Cart and order function: The application also has functionality where a user can add and delete products in their cart. The users can also send orders.

- User profile: The app has a separate page where users can access and update their basic information. It also contains order history where all the orders are listed.

The tests for API endpoints are written using Jest and Supertest

Tech stack:
TypeScript, MongoDB, React, Express, Docker and AWS

Library app:

A full-stack library web application entirely developed by myself using Django and React frameworks. The application is deployed to digitalocean using digitalocean kubernetes service (DOKS) and the infrastructure is managed using Terraform. https://www.bookslibrary.app .

The app has following features:

- The application has runtime data validation and when the frontend encounters any unknown data from the backend, the error is handled. This is mainly achieved using Superstruct and a custom wrapper around axios request.

- The application has an authentication system built using Django session authentication in the backend.

- The application has search, filter and pagination functionalities.

- The users of the app can browse through the books, view their details , borrow or return books and see their profile.

Tech stack:
TypeScript, SASS, Chakra UI, React, Django, PostgreSQL, Docker , Nginx, Kubernetes, DigitalOcean

Education

University of Turku
09.2011 - 09.2013
Master's Degree in Astronomy
Finland

Tribhuvan University
01.2006 - 01.2010
Master's Degree in Physics
Kathmandu, Nepal

Languages

Nepali   Native language
English   Good
Finnish   B1.1

Citizenship

Finland

References

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