

Anup Poudel

+358 4521 40666

apoudel048@gmail.com

Turku, Finland



Profile

I am a software developer skilled in full-stack web application development using Python and TypeScript programming languages. 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.

My journey with programming began in 2011, when I first used Python and Fortran programming languages for analysing data from space telescopes for my university thesis project. Since then, programming became an integral tool in my research projects, guiding my data analysis efforts until 2019.

Around four years ago, I decided to pivot my career towards web application development. After a year of intensive trainings and self-guided learning, I successfully transitioned into a new professional trajectory. In 2021, I joined Ambine Technologies as a software developer, where I immersed myself in full-stack web development. This role allowed me to cultivate a robust skill set, particularly in Typescript and Python programming languages. Unfortunately, my tenure at Ambine was abruptly halted by the company's shutdown in 2023 due to financial reasons.

Currently, I am actively exploring opportunities to join a forward-thinking company where I can apply my skills strategically and foster continuous learning to broaden my expertise. My goal is to become an integral part of a collaborative team, collectively striving towards shared objectives and making significant contributions to the success of impactful projects.

Technical background

My go to tools in software development 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 also have experience with the following tools and technologies:

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

Databases: PostgreSQL, MongoDB

Testing: Pytest, Jest, Mocha, Chai, Vue Test Utils

Other skills: Micro-services, gRPC, GraphQL

Work experience

Ambine Technologies

12.2021 - 08.2023

Junior software developer(12.2021 - 08.2022)

Software developer(08.2022 - 08.2023)

Ambine provided a software solution that helped 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, VueJS , Vue Test Utils, Python, Django and Pytest

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 using ExpressJS and React frameworks. The user interface of the application can be accessed at <https://lucid-lewin-704e07.netlify.app/>. The code can be viewed at <https://github.com/anup-an/shopping-cart-react>. The server is hosted in AWS using Elastic Container Service (ECS). 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. The CI/CD pipeline is managed using Github Actions.

Tech stack:

TypeScript, Tailwind CSS, React, Redux, MongoDB, Express, Docker, AWS, Github Actions

Library app:

A full-stack library web application entirely developed by myself using Django and React frameworks. The application can be accessed at <https://www.bookslibrary.app> and code can be viewed at <https://github.com/anup-an/library-api>. The application is deployed to Digitalocean using Digitalocean Kubernetes Service (DOKS) and the infrastructure is managed using Terraform. 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, Terraform, Helm and DigitalOcean, Jenkins

Trainings

Buutcamp Sprint - Full stack Typescript - Buutti Oy

08.2020 - 12.2020

Skills - Typescript, React, Express, PostgreSQL

Full stack development training - Integrify Oy

12.2021 - 03.2022

Skills - Typescript, React, Express

Publications

Multifrequency studies of galaxies and groups I. Environmental effect on galaxy stellar mass and morphology

Astronomy & Astrophysics, 2016

A study of the stellar mass functions of different galaxy populations in groups as a function of their large-scale environments using multifrequency observations.

The effect of cosmic web filaments on the properties of groups and their central galaxies

Astronomy & Astrophysics, 2017

A study of the properties of groups and their central galaxies in different large-scale environments defined by the luminosity density field and the cosmic web filaments.

Properties of brightest group galaxies in cosmic web filaments

Astronomy & Astrophysics, 2020

A study on the dependence of intrinsic galaxy properties on distance to the nearest cosmic web filament, using a sample of galaxies for which the local environment is easily assessable

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

Portfolio

<https://anup-poudel-portfolio.netlify.app/>

Github

<https://github.com/anup-an>

References

Jaakko Laurila

<https://www.linkedin.com/in/jaakkolaurila/>

Engineering Manager, Smartly.io Oy

+358503520521, jaakko.o.laurila@gmail.com

Andrew Fatkulin

<https://www.linkedin.com/in/andrwn/>

Senior Software Engineer, Smartly.io Oy

coyoneda@tutanota.de