

Ben John K

benjohn.mec@gmail.com

9746038376

Ernakulam, Kerala

Education

Computer Science and Engineering

Govt. Model Engineering College, Thrikkakara • Ernakulam, Kerala

03/2017

- Captain, College Chess Team.
- 2nd position in Cusat Intercollegiate Chess Tournament 2016.
- Microsoft Certification for MB2-716 MS Dynamics 365 customization and configuration.
- Science Olympiad winner in 2009, 2010 among the 9th and 10th classes in school.
- Certification for Python Full Stack Development (Django and Angular) from Luminar Technolabs, Kochi.

Skills

C, C++, Python, JavaScript, ES6, Python Django, Django Rest Framework, GraphQL, ORM, JSON, SQL, MySQL, Postgres, pgadmin, Redis, Elasticsearch, Git, Gitlab, HTML, CSS, Bootstrap, Docker, Celery, Pandas, Playwright, Pyppeteer

Experience

Associate Software Engineer

Turbolab Technologies • Ernakulam, Kerala

01/2023 - 01/2024

As a software engineer at my previous company, I have played a key role in the development and maintenance of robust web applications, specializing in backend technologies.

Project – Dashboard Generator Application:

- A web application for visualizing e-commerce data like price of a product over a period of time in different visual representations such as table, line chart, bar graph etc.
- This application enables a user to create dashboards and insert as many widgets as he needs where each widget is a visual representation of data collected from database.
- Database query for a widget with which its data is collected from the db by executing it can be given when a user creates the widget.
- User can apply different values to a widget query as widget filters and then the query will be executed and collects data and serves the data to the front end.
- Dashboard filters can be applied over the widget filters. Dashboard filters and widget filters can be override by passing the custom filter values in the url as query parameters.
- Designed, built, maintained all the APIs required for the project in Django rest framework and dockerized the application. Used PostgreSQL relational database for storing data.
- deployment URL - <https://dashboards.metricscart.com/>

Project – MetricsCart

- A web application which enables an organisation to track products which is sold in different retailers such as walmart.com, lowes.com etc. to track details such as price changes, MAP violations etc.
- User can create web crawlers which is internally called as spiders as a project in which he can select a retailer and give a set of product URLs so that each time the crawler runs, the user gets the data of all the given products.
- Integrated stripe payment method to the app which enables the sales team to charge a customer of this application for the usage. Implemented stripe webhook API to update the status of the payments. Utilized celery to send email to the user when the payment is completed.

Project – Rick and Morty – Training Project

- Built APIs to create character, list all the characters, update, delete and search them using Django rest framework and GraphQL as well.
- Built APIs to create, list, update, delete and search the episodes. Characters can be associated with an episode.
- Built the front end using React.js. Used react libraries such as formik, react slick, etc. Familiarised with how react works such as hooks, components, axios etc.
- Dockerized the project.
- Deployed the full project using AWS. The project was live on a URL for a few months. Used s3 bucket for media storage such as images of characters. Used Amazon Relational Database Service (Postgres DB), CloudFront as CDN to cache the responses which improved the app performance. Used s3 bucket to host the front end.

This experience has equipped me with a strong foundation in backend development, allowing me to contribute effectively to projects that require expertise in Python, Django, RESTful APIs, GraphQL, PostgreSQL Docker etc.

Python Developer

Turbolab Technologies • Ernakulam, Kerala

06/2021 - 01/2023

Python Developer, Turbolab Technologies. Ernakulam, Kerala

Jun. 2021 – Jan. 2023

As a Data Scraping Specialist at my present company, I have accumulated 1.5 years of hands-on experience in the field of web data extraction. My role primarily focused on building web scrapers (internally called as spiders) using internally developed framework called dragline3 which utilizes python HTTP clients such as requests module, aiohttp, httpx, etc. Here are the key responsibilities and achievements during my tenure:

Projects

- Developed and maintained about 25 spiders (scrapers/bots) to scrape the data from different websites such as costco, petco, buybuybaby, drizly, walmart, walgreens, etc.
- Parsed the collected response of product pages and search pages using HtmlParser(Internally developed parser like BeautifulSoup) by writing suitable XPath to extract the desired data points such as product name, price, brand, variants, size etc.
- Monitored daily data delivery of spiders to the clients and solved any issues if any. For example, site structure changes, request URL changes can come and the spider should be updated accordingly as soon as possible to ensure smooth and timely delivery of data to the clients.
- Written post-scripts in python for checking the integrity of the collected data using pandas library. The post script will run after each spider run and will upload the data to Amazon s3 bucket or Azure Blob Storage of the client of that particular spider.
- For websites with heavy blocking and bot detection, I have created spiders using pyppeteer and playwright which are python libraries that uses actual browser instances to scrape the web pages, thus bypassing the fingerprinting detection and bot detection, from such websites. So it actually looks like a person has manually opened the browser and visited the product or search pages. Less bot detection.
- Developed APIs of different websites for clients to call with a product id and a zip code in the query parameters section and in response, the client will get back all the details of the product which are given in the website.

This experience has equipped me with a strong foundation in web scraping technologies and methodologies, making me a valuable asset to any team seeking expertise in data extraction and analysis.

Software Developer

Suyati Technologies • Ernakulam, Kerala

07/2017 - 09/2019

- Worked in web development mainly in the front end side and built different solutions in MS Dynamics CRM.
- Responsible as a primary contact for customizing internal sales Dynamics CRM instance.