

Rinaldo Rex. G

Lead Backend Developer | Python

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📋 Executive Summary

Product and solutioning architect with keen sense of engineering design and philosophy, designing product solutions with functionality, usability, and performance in mind.

Can develop, guide, and mentor teams to adhere to strong software engineering principles.

- Designed a **Agentic AI product from scratch to production** with a paying customer (Digit88 - Pocket Assistant)
- Developed **internal support tools with GenAI** for automating various tedious tasks (Foundry - Via Digit88)
- Developed various **Proof of concepts and MVPs** across multiple teams to help with **AI-powered products** (PNA - before LLMs, on NLP and Computer vision)
- Worked on a completely brand new **internal product as Head of Products** from figma designs to PRD specifications(Zephony)
- Developed personal [plugins](#) with only **Context and Harness engineering with Pi coding agent**.
- Developed a personal chrome extension for meaningful tab management called [ProTab](#)

🧠 Skills

Python

FastAPI/Flask/Django, Celery/Redis

NLP

Spacy, NLTK, HuggingFace

GenAI

LLMs, Context and Harness Engineering, PydanticAI

Databases

SQL: Postgres, NoSQL: MongoDB, Cloud: Snowflake, ClickHouse

Computer Vision

OpenCV (Traditional) + A bit of ML/DL

Data Engineering

Airflow DAGs, ETL pipelines, Pandas

Frontend

HTML5, CSS3, JS, ReactJS

DevOps/Deployment

Common CI/CD tools, Docker

Cloud

GCP (Cloud functions), AWS (EC2, S3, Lambdas)

📁 Work Experience

Lead Backend Developer - Python | Consultant, Digit 88

11/2021 – 03/2026 | Remote, India

Salient Predictions - Geospatial AI weather forecasting

- Worked as a python consultant to clean up their **Flask and FastAPI** backend apis to serve performant weather forecast data and helping clear out bugs on the API layer intergrating with their GCP enabled prediction data.

PocketAssistant - Agentic AI for newsletter generation

- Helped kickstart the very first GenAI powered **Agentic AI system** utilizing raw agents for crawling, ranking, and generating newsletters.
- Mentored the team to design the whole product from end-to-end and helped productionize the POC via **FastAPI + Custom Agentic flows**

Urbint (Now Itron) - Utility industry

- Solving long standing bugs and establishing better practices(Async retros, modern dev tools via **UV+Ruff**) within the Python codebases for ensuring quality and improving DX.
- Identified gaps in existing infrastructure and helped stabilize outdated code (Cloud functions)
- Worked with **Django + DRF** and **FastAPI + GraphQL** on two different applications via GCP. Used **PostgreSQL**, and **MongoDB**

Foundry - Predictive Generative Analytics

- Improved the performance of various scripts for ETL pipelines. Researched, streamlined and built interesting solutions via LLMs for data enrichment and categorizations
- Worked with Pandas, Concurrent Python, **HuggingFace** with various **LLMs**, **FastText**, **AWS Lambdas**, & **Snowflake Usage.ai**  - Cloud Usage Optimization

- Refactor the core codebase interacting with AWS, and DB to reduce tech debt, improve stability, enhance incident mitigation, and improve performance. Improve the overall SDLC process through engineering reviews.
- Worked on **FastAPI**, **AirFlow**, **Clickhouse**, **PostgreSQL**, and 3rd party APIs (Sentry, AWS)

IXLayer - Healthcare industry

- Part of the core backend team building impactful features(SMS, Notifications system) on a healthcare product.
- Ensuring codebase standards adhere to Health standards like **HL7 + HIPAA compliance** via PHI handling for audits.
- Worked primarily on **Django**, **MySQL** and integration with **3rd party APIs (Twilio)**

Zephyry

Head of Products Lab

11/2020 – 11/2021 | Remote, India

Working on the ideas of different products and defining their scopes, feasibility, usability, and strategizing the whole pipeline from designing (conception, UI, and UX), to development, to marketing features.

- Worked on a custom social media platform with **React** on the frontend, and **Python(Flask)** on the backend.
- Designed an internal writing tool, and a minimalistic CRM with **Figma** and worked with the team in fine-tuning the UI/UX.

Backend Engineer

02/2018 – 02/2019 | Remote, India

- Worked exclusively on the backend as a lead engineer. *Python, Flask, Celery, Redis, MongoDB, PostgreSQL*, and a lot of team management tools including *Trello, Slack, Postman, Notion, Basecamp, GSuite*.
- Built multiple E-Commerce sites with DB heavy use cases. (SQL/NoSQL) with high throughput and low maintenance including DB migrations.
- Worked on Planning, designing and developing (backend) a completely customized CRM for an Italian client.

Senior Backend Developer, PositiveNaick Analytics

02/2019 – 11/2020 | Chennai, India

- Worked on AI - Exclusively on **NLP** (Building a conversation platform leveraging ML and DL along with a completely customized knowledge graph), and in **Computer Vision**.
- Standardized and ensured Code Quality on the backend architecture.
- Core skills: *Python, Tensorflow/PyTorch, Neo4j, ArangoDB, Docker, Linux servers, Hardcore NLP pipeline, and Intermediate CV*

Software Engineer, Tata Elxsi

07/2016 – 04/2017 | Trivandrum, India

- Worked solely on digitizing a navigation system as part of a digital dashboard on upcoming connected cars.
- Navigation system re-engineering involved utilizing open map data and an open-source navigation system(Marble) onto an embedded platform using ARM processors. Utilized primarily Qt framework and C/C++.

Past Projects

Natural Language Processing

Chatbot platform - Yekaliva

- A complete chatbot platform utilizing a customized knowledge graph competing with the accuracy of major players in the market.
- Used **Neo4j** and **MongoDB** as databases, and hardcore NLP libs (**Spacy, Nltk, Stanford NLP**) built on flask using microservices architecture.

Verbalizer (Side-project)

- Aimed to be a simple natural language assistant, it used various NLP tools/techniques to be able to interact with the computer via text.
- Tools: **Spacy, NLTK, 3rd-party APIs** (such as weather forecasting, Goodreads, TMDB)

Computer Vision

Online(Realtime) multi-camera fusion on people tracking

- Client project with strict deadlines and rigid constraints such as performance and computational cost. The application was to be online(realtime) and supposed to be part of an edge AI system.
- Used **OpenCV, Flask, Scikit-image, Tensorflow** majorly

Yet Another Task Scheduler (YATS)

- A hobby project using image processing(**Pillow**) that utilized intricate auto-scheduling of your tasks that you feed in via the CLI, and automatically creates it into an Eisenhower matrix and applies it onto your current wallpaper.

Miscellaneous

Proactive

- An open-source command line application(PoC) that was intended to help avoid/stop procrastination. Built with **Python Click**.

Education

B.Tech CSE(82%), 2012-2016, Karunya University, Coimbatore, India

Higher Secondary(89%), 2012, AKT, Kallakurichi, India

High School(93%), 2010, AKT, Kallakurichi, India

Contributions

Pycon India 2014, *Lightning talk on Naive Bayes classification*

2014 | Bangalore, India

Gave a quick talk and demonstrated creating an instant text classifier using TextBlob

Open Source

An avid open source enthusiast. Minor contribution to an NLP lib (Textstat)

Interpersonal skills

Senior Backend Lead - PNA (Led the backend development and brought many best practices into the org)

Head of products lab - Led a team of people from different departments and headed projects enabling the team to be better equipped for products of our own.

References

Rukmangadha, *Project manager*, Digit88

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Nathan Kannan, *Business Consultant/Entrepreneur*

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