Jagadeesh Kotra

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Introduction

Versatile software developer with 3 years of experience and a passion for problem-solving and innovation. Skilled in multiple languages and open-source contributions. Excels at translating complex requirements into efficient, scalable code. Known for quickly grasping new concepts and delivering high-quality solutions, with a strong drive to make an impact in dynamic, collaborative environments.

Technical Skills

Languages: Python, Rust, Java, Go, C, OpenCL, Javascript, Typescript
Libraries & Frameworks: FastAPI, Flask, Pandas, React, Angular, Tailwind, Material, Spring Boot, React Native, scikit-learn, transformers, LangChain, Axum, GTK
Web Development: HTML, CSS, NodeJS, GraphQL, WebSockets, Protocol Buffers, Microservices, Micro Frontends
DevOps: GIT, Docker, Podman, Azure DevOps
Cloud: AWS, GCP
Database: MySQL, Postgres, AlloyDB, SQLite

Work Experience

- **Associate Dev I** – Technoidentity (Mar 2023 -)
  - Migrated the electricity usage forecasting engine from on-premises to GCP and rewrote legacy Oracle PL/SQL logic in Python and OpenCL GPGPU intrinsics, delivering a **4x** performance gain over the legacy implementation.
  - Developed a performant business-critical full-stack asynchronous operation solution for a major F-500 ER&I Company which could process **7.5k requests/min**.
  - Led the development of a full-fledged AI-powered LMS platform for a leading US Tolling Agency, improving training efficiency by **30%**.
  - Led a team of React developers to build PoC demos and integrate models into client applications. Built front-end(s) using React, NextJS, TypeScript, and Tailwind to showcase GenAI Proof of Concepts.
  - Created data pipelines to gather and process training data for fine-tuning models to achieve state-of-the-art accuracy in NLP-to-SQL tasks. Finetuned LLM Achieved **76%** accuracy beating ChatGPT 3 in benchmarks.
  - Generated Synthetic Datasets from Documents & Other Sources collected using a web crawler from over **100,000+** web sources to finetune an Open Source LLM for domain-specific tasks.
- **Python Developer Intern** – Crimson Insights LLP (Jun 2018 - Jan 2019)
  - Web Scraping / Data Processing using Python and Selenium. Storing and retrieving data from MongoDB.
  - Audio Fingerprinting and detection. Ported Dejavu Library to python3 and implemented an API to fingerprint and detect audio clips.
  - LogoNet - Brand Logo Detection model w/ API and Batch inference, process over **20 images/sec**.

Education

Bachelor of Science (**B.sc**) - Computer Science (CGPA - 8.07)
Osmania University
2018 - 2022

Projects

- **eOVPN**
    - Desktop GUI Application to Manage, Update, and connect to OpenVPN Configurations. Made with GTK.
    - Utilizes GNOME ecosystem of libraries – GLib Gio, Gdk to integrate with GNOME Desktop Environment seamlessly.
    - Open-source - Available at Github.

- **Algoticks**
    - Algorithmic Trading simulator written in C. Optimized for one thing - SPEED. it can process up to 0.8 million *lines / sec.*
    - input data agnostic simulation.
    - Easy to write algorithm template, supports custom callback modules (ex. logging)
    - Open-source - Available on Github.

- **WPC**
    - WPC - Wallpaper Changer is a cross-platform timer-based wallpaper changer. Written in Rust.
    - It can automatically scrap wallpapers from different sources.
    - Actively used and promoted by one of the popular internet wallpaper communities.
    - Open-source - Available on Github.

- An up-to-date collection of all my projects is available on my blog.

Miscellaneous

Opensource Contributions

- GNOME
- freedesktop
- microsoft/LightGBM
- Vapoursynth

Recognitions

- **Netflix** Hall of Fame

Certificates

- Mathematics for Machine Learning: Linear Algebra
- Machine Learning with Python