Birnesh Eswaramoorthy

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ABOUT ME

- I'm a **Bilingual Full Stack Web Develope**r with 5+ years of experience in developing and optimizing user-focused web application with complex business objectives.
- Interested in learning new technologies, infrastructure management , API security and networking.

WORK HISTORY

JP Research & Consulting - Full Stack Web Developer (Freelancer)   *Jul 2022 - Present*
- Supply Chain Evaluation using **AI-Open Source Intelligence**, focused on **ESG** and **human rights** compliance - tool name **IQiD** (https://webint.jp)
  - Integrated machine learning models with the **Django RestFramework** API.
  - The team comprises 3 members.
  - Adopted Agile methodology and worked as a **scrum master**.
  - Created **CI/CD** pipelines using Github Actions.
  - Leveraged technologies such as **JavaScript, Python, React, Next.js, FastAPI, Django, Docker, AWS, D3.js, Tailwind CSS, and Material UI**.
- ETL data pipeline for collecting Open Source Intelligence:
  - Created an internal **Kubernetes Cluster** for deploying the ETL pipeline.
  - Installed **MetalLB** and **Ingress Nginx** for exposing services in the network.
  - Provisioned the internal network and router for cluster access.
  - Deployed **Apache Airflow** in the cluster and created various tasks for the data pipeline.
  - Customized the Airflow image to include **MongoDB** provider.

Rakuten Symphony - Front End Web Developer   *Jul 2021 - Jun 2022*
*[* worked as a contract employee from Jul 2021 - Dec 2021]*
- Developed web applications for various projects within the Rakuten Communication Platform (RCP).
- Integrated the frontend with Backend APIs developed using FastAPI.
- Leveraged technologies such as **JavaScript, Angular, Nxwl/Nx** (Monorepo Build Framework), **D3.js**(library), **SCSS**(styling), **Angular Material, Firebase,** and **Docker**.
- Collaborated with a team of 20 members, working closely with UI designers and Product Owners to deliver UI assets.
- Played a major role in Angular version migration.
- Organized learning sessions with the team to explore **docker-containerization** techniques.

Human Resocia, Japan - Full Stack Web Developer   *Mar 2019 - Jun 2021*
*[* contract to **Honda Motors Japan** | Sep 2019 - Jun 2021]*
- Inventory and Defect Report Management System - Internal Web Application:
  - Developed **defect report management systems** (web applications) for different manufacturing departments. The aim was to streamline processes, reduce manual input, and analyze factors such as the cause, frequency, and other relevant aspects of defects in the production process. This facilitated easier maintenance of reports.
  - Built the applications from scratch utilizing **Django, Django Rest Framework, and React** and **Redux**.
  - Generated OpenAPI documentation using **Swagger UI**.

- Tested APIs using the **pytest** library.
- Implemented containerization technology (**Docker**) and micro-services architecture.
- Leveraged technologies such as **Python, PostgreSQL, JavaScript, React, Django Rest Framework, keycloak** and **Pandas.**
- Engaged in collaborative discussions with Japanese clients to gather and understand application requirements.
- Adhered to an **Agile** (Scrum) development methodology.

Test And Verification Solutions Ltd, India - Internship   *Jan, Feb, July, Aug - 2018*
- Received training in the following areas,
  - Programming languages (**C++, python**).
  - Version control (git).
  - Software development tools and methodologies (**Kanban, Agile** and **Waterfall**).
- House utility (**gas and electricity**) contract portability system - Web Application.
  - Assigned to API team and engaged in **manual API testing**.
  - Utilized the stage environment for local API testing with **Postman**.
  - Developed simple functionalities and scripts using C++

SKILLS

Frontend : React, Angular, Next.js, HTML, CSS, Tailwind CSS.

Backend : Django, Django Rest Framework, FastAPI, Keycloak.

Database : PostgreSQL, MongoDB.

Containerization : Docker, Docker-compose, Kubernetes.

Cloud : AWS (S3, ECS, EC2, RDS, Cloudfront, Route 53, ALB, ACM), Mongo Atlas, Firebase.

Libraries / Packages : Redux, D3.js, Material UI, Angular Material, AG Grid, RabbitMQ, Apache Kafka, Apache Airflow, Apache Superset, Pandas, Scikit learn, Scrapy, pytest.

Version Control : Github, Gitlab.

Tools : Postman, Notion, Figma.

EDUCATION

University - Kongu Engineering College, TN, India   *July 2014 - Apr 2018*
- Completed bachelors degree in **Electronics And Communications Engineering**
- Graduated with **8.85 CGPA** (First class with Distinction) .

High School - Erode Hindu Kalvi Nilayam, TN, India   *May 2013 - Apr 2014*
- Studied **Mathematics And Computer Science** major**.**
- Graduated with **95.6%** and scored **194.75/200** engineering cutoff.

LANGUAGES
- Tamil (Native level)
- English (Business level)
- Japanese (Business level - JPLT N4 certification)