

# Arun Singh Sivaparakash

Full Stack Developer

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## PROFILE

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Experienced Full Stack Software Engineer with 5 years of expertise in software development. Holds a master's degree in AI and proficient in React, JavaScript, Typescript for front-end, and Python, ExpressJS, Django, FastAPI for back-end development. Skilled in deploying applications with Docker and Kubernetes.

## PROFESSIONAL EXPERIENCE

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**Full Stack Data Scientist | Project Manager DATA**

Paris, France

**Vinci Energies International and Systems, Purchasing IT Tools**

Nov 2021 - Present

- Designed and developed a app called 'Navik' from scratch to address company's procurement needs which uses SAP BI data and open source data [INSEE Fr] build with React, JavaScript, MaterialUI, FastAPI, Python and deployed the application in a Cloud Server.
- Developed a scalable FastAPI backend called 'VEISAPI' for application 'Navik' written in python that is connected with various external and internal data sources and exposed data to frontend as APIs.
- Build User Interface(UI) using JavaScript, React, Material UI and secured the application with SSO Integration and SSL termination using Nginx with domain names and SSL certificates.
- Experienced in deployment strategies using Docker, Kubernetes, Gitlab and visualization using ELK(Kibana) and server monitoring using Node exporter, Prometheus and Grafana.
- Build a FastAPI using Python that fetches real time stock quantity from suppliers API endpoint as functional enhancement for a B2B Procurement Tool called 'Marketplace'.
- Build a 'API Aggregator' using Python and Streamlit[UI] to aggregate different REST API response from various supplier's API and extract specific data from all the JSON responses and store in database for 'Marketplace'.
- Experienced in building analytical dashboards in SAP Cloud Business Intelligence platform to visualize Suppliers Purchase orders histories and Purchase invoices details across different Poles and Business units and countries.
- Build and deployed a multiclass classification ML model that effectively classifies purchase family classes with 89 percent accuracy and deployed it using Docker and FastAPI in production.

**MACHINE LEARNING ENGINEER**

Chennai, India

**PRODAPT Solutions, India**

May 2019 - September 2020

- Explored image classification tasks and investigated the feasibility of implementing Deep Learning on on-premise Linux servers. Aimed to minimize costs associated with cloud operations.
- Involved in Chat bot development project called 'PROBOT' framework 'RASA' and python which was integrated with Microsoft teams to automate and streamline employees day to day activities like time sheet logging etc.

- Experienced in Micro services Architecture using Docker and Kubernetes for seamless production deployment, ensuring efficient integration and reliable performance.
- Analysed large Service Desk tickets data using Pandas, Matplotlib, Seaborn libraries and Python to extract critical data points that helped in making more informed decision-making within the team.
- Experienced in Building CI CD pipelines using Apache Airflow, GitLab, Docker and AWS Elastic Container Service (Amazon ECS).

**Associate Software Engineer**  
**ACCENTURE, India**

Chennai, India  
Nov 2016 - Mar 2018

- Worked as a consultant for US bank 'FirstData' on quality assurance for financial transactions, involved in analysing transaction records from Client's POS (Point of sale) Machines.
- Running Test Cases in HP Tandem Non-stop Server and querying MySQL to interrupt the results against Client requirements.

## EDUCATION

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**EPITA - Ecole pour l'informatique et les techniques avancées, Paris, France** Sep 2020 - Sep 2021  
Master of Computer Science - Artificial Intelligence AI

**Diploma in Data Science, Great Lakes Insitute, Chennai, India** Oct 2018 - May 2019  
**Bachelor in Engineering, Anna University, Chennai, India** Aug 2012 - Apr 2016

## MEDIUM ARTICLE

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**Step-by-Step Guide to Build an End-to-End Machine Learning Proof-of-Concept Using Open-Source Tools** April 2023  
**Link** <https://medium.com/@arunsinghmailid/step-by-step-guide-to-build-an-end-to-end-machine-learning-proof-of-concept-using-open-source-dd6a6e28bd1b>

## TECHNICAL SUMMARY

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Python	●●●●○
JavaScript, REACT, MUI	●●●●○
Data engineering	●●●○○
ML, AI	●●●●○
FastAPI, PostgreSQL	●●●●○
Docker, Kubernetes	●●●●○
SAP, GCP, AWS	●●●○○
GIT	●●●●○

## LANGUAGES

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English	Advanced
French	Intermediate