Aditya **Garga**

Full-Stack Software Engineer | Signal Processing

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adityagarga

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EXPERIENCE

FULL STACK SOFTWARE ENGINEER - CELSIUS ENERGY - CLAMART, FRANCE SINCE JULY 2022

Building workflows for a geothermal energy solution for heating and cooling buildings sustainably

- Implemented, tested and deployed data pipelines to provide actionable insights into real-time construction operations using IoT sensors
- Designed real-time dashboard for monitoring building energy efficiency metrics using a sensor network

Technologies: Python, Databricks, Azure, Terraform, Angular, PowerBI

INTERPRETATION ENGINEER - SCHLUMBERGER - CLAMART, FRANCE NOV 2019 - JUNE 2022

Built real-time predictive analytics algorithms for anomaly detection in complex hydraulics systems for drilling operations

- Implemented real-time algorithms to work with streaming sensor data for a major oil and gas client
- Validated algorithms using large-scale time series data engineering
- Published patent memos for various algorithm development efforts

Technologies: Python (numerical computing, Dash), C#, Custom large scale data compute platform

EXPERIENCE

MSC. SIGNAL PROCESSING - ELECTRICAL AND ELECTRONIC ENGINEERING

IMPERIAL COLLEGE LONDON 2018-2019 (GRADUATED)

- Courses: Digital Signal Processing, Large Dimensional Data Processing, Adaptive Signal Processing and Machine Intelligence, Digital Image Processing, Speech Processing, Computer Vision, Wavelets
- **Masters Research Thesis**: Lightfield Microscopy Super-resolution using Machine Learning

BSC. ELECTRICAL AND ELECTRONIC ENGINEERING

ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL) 2014-2018

BSC. ELECTRICAL AND ELECTRONIC ENGINEERING (YEAR ABROAD)

KTH ROYAL INSTITUTE OF TECHNOLOGY 2017-2018

FRENCH BACCALAUREATE WITH INTERNATIONAL OPTION (OIB)

LYCÉE INTERNATIONAL DE SAINT GERMAIN EN LAYE 2014 (GRADUATION YEAR)

SKILLS

PROGRAMMING

Python: Core, Numerical computation, Data visualization, ML libraries, Flask

Data engineering: SQL, Spark, Databricks, Streaming technologies (Kafka, Azure Event Hubs)

Front-end development: HTML, CSS, JavaScript, React

Cloud integration with Azure services: Function apps, IoT Event Hub, Storage, Authentification

DevOps: Docker, Kubernetes, CI/CD pipelines, Testing, Git

Self-learning: Pluralsight, Coursera, EdX, YouTube

LANGUAGES

English (native), **French** (native), **Hindi** (native), **Spanish** (fluent), **Mandarin** (scholar level)

LIFE

Self taught (using YouTube) **guitar player**

Fitness enthusiast (strength training and running, last race Paris-Versailles 2022)

Self-taught (also using YouTube) **cook**

Curiosity and a deep desire to keep learning