

# John Davis

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## Education

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**Master of Technology, Mathematical Modelling and Simulation** 2024 - present  
**Defence Institute of Advanced Technology (DIAT)** Pune, India

**Bachelor of Technology, Computer Science and Engineering** 2016 - 2020  
**Government Engineering College** Palakkad, India  
(APJ Abdul Kalam Technological University, Trivandrum)

## Professional Experience

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### Infosys Limited

**Senior System Engineer** 09/2022 - 10/2023  
Involved in migration from On Premise to Cloud. Development of  
PySpark Big Data processing pipeline in Apache Airflow on GCP  
Dataproc clusters. Chennai, India

**System Engineer** 06/2021 - 08/2022  
Operations of On-Premise Big Data platform which deliveries  
reports daily to Business from 500 million records of  
Entertainment usage data. Chennai, India

## Skills

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Scientific Computing – Numpy, SciPy, SciKit-Learn, nalgebra

Data Processing – Apache Spark, Hadoop, Kafka

Docker

Git

Linux

Cloud Computing

SQL

Latex

## Programming Languages

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Python • Rust • C • Go

## Projects

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**Implementing Mathematical Models in Biology** present  
**Numerical Computation - Differential Equations**

**Cryptanalysis of Image Encryption based on Chaotic System** 04/2021  
**Python**  
Analysing security of simple chaotic image encryption methods,  
based on latest research.  
Lorenz Substitution, Logistic Map, Permutation Substitution.