Nikola Stoyanov

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Work Experience

• Aridhia Informatics

July 2020 - to date

Remote, United Kingdom

Backend Developer

 Developed Aridhia's data sharing and delivery platform for scientific computing in the health data science sector

- Created the platform's external RESTful and GraphQL APIs.
- Designed a data access request component using a business process model and notation system.
- Technologies: Ruby, PostgreSQL, GraphQL, Kubernetes.

• Element Materials Technology

Certification Engineer (FTE 0.2)

September 2015 - June 2020

Warrington, United Kingdom

- Developed Python and Excel tools for statistical modelling of thermal test data.
- Business development with clients in China and Southeast Asia.
- Developed new technical services for material property extraction using Neural ODEs with Julia and Flux.jl.
- Technologies: Julia, Python, SciPy, VBA.

Education

• The University of Manchester

September 2016 - to date (Exam pending)

Mano

Manchester, United Kingdom

- Developed a Neural ODE inverse heat transfer method to predict material properties using Julia and Flux.jl.
- Sponsors: Element Materials Technology.

PhD Materials for Demanding Environments

• The University of Manchester

M.Eng. Civil Engineering with Industrial Experience

September 2011 - June 2016

Manchester, United Kingdom

Skills

Programming: Python, Go, Ruby, C++, Fortran, Matlab, Julia, shell scripting, SQL, LATEX **Technologies:** Kubernetes, PostgreSQL, DynamoDB, RabbitMQ, Terraform, GraphQL

Scientific/Technical Computing: SciPy, Seaborn, ABAQUS, VTK, ParaView, DifferentialEquations.jl

Machine Learning: Scikit-learn, TensorFlow, Flux.jl **DevOps:** Docker, CI/CD, AWS ECS, Azure AKS

Cloud: GCP, AWS, Azure **Version Control:** Git

Personal & Professional Activities

• Image recognition

https://github.com/NikStoyanov/image-recognition

- Tensorflow image recognition API in Go hosted on AWS ECR with a React frontend.

pyCM

https://doi.org/10.1016/j.softx.2020.100458

 Contributed to the development of the algorithms for numerical integration and postprocessing of results from residual stress measurements using Python, SciPy and VTK.

Interests

- Long-distance running.
- Guitar enthusiast.