Dr. Tom Brooks

Software engineer | Solution architect | Researcher

Passionate about climate change, machine learning and biotech.

EXPERIENCE

Applied Blockchain, London — Software engineer

September 2020 - Present

- Technical lead of the Silent Data confidential computing platform.
- Architected and led the development of a blockchain invoice financing solution.
- Consult on other projects with external clients and the CEO.
- Produce whitepapers and technical reports. Regularly present work internally and externally.
- Using Agile methodologies.

University of Sheffield, Sheffield — Postdoctoral researcher

May 2020 - September 2020

• Simulation and statistical analysis to explore using particle physics for nuclear non-proliferation.

Rutherford Appleton Laboratory, Oxford — Software engineer intern

July 2015 - September 2015

• Integrated scientific Python packages with a framework for high performance computing and materials science data visualisation.

EDUCATION

University of Sheffield — PhD (particle physics)

September 2016 - April 2020

- Developed algorithms for topological feature selection in particle interactions.
- Used high performance computing for modeling and simulation.

University of Manchester — *MPhys physics* (First - 84%)

September 2012 - June 2016

• Applied and analysed machine learning techniques for pattern recognition in particle interaction images.

PROJECTS

Algal Data Analyser (ADA)

- Created and maintain a Python and Qt based growth curve analysis software package used in leading microalgae biology labs.
- Co-authored a paper on the software with academics in the field.

Phone(+44) 7939 052 907Emailtom.g.r.brooks@gmail.comWebsitetom-brooks.comGitHubtgrbrooksLinkedIntgrbrooks

TECHNOLOGIES

Languages: C/C++ (7 years), Python (6 years), Bash (5 years), TypeScript (2 years) DevOps: Docker (4 years), CircleCI (2 years), Azure (2 years), Kubernetes (1 year) Frameworks: React (2 years), NodeJS (2 years), NextJS (1 year) OS: Linux (7 years), Mac (4 years) Source control: Git (6 years), GitHub (3 years) Databases: PostgreSQL (2 years), TypeORM (2 years) API: REST (2 years), gRPC (2 years), JSON-RPC (1 year) Specialist: Intel SGX (2 years), Tensorflow (1 year), SciPy (1 year) Testing: Jest (2 years), GoogleTest (2 years)

AWARDS

Best Digital Identity Solution *Open Banking Expo*, 2021 As part of the Silent Data development team.

Visiting Research Scholarship Fermilab, 2018 Funding to perform research at one of the top national laboratories in the US.

Hatfield-Heginbottom Scholarship University of Manchester, 2015 Best performing student in the third year of study.

Research Internship

University of Manchester, 2015 Funding for a research project to classify particle interactions with machine learning.