

## Alexei Kosyhin

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## Profile

A recently qualified postgraduate with a Masters in Physics at University of York demonstrating excellent analytical and research skills, having a passion for new technology, scientifically minded, focused, self-disciplined, reliable, able to work on my own and a part of a team, creative and extremely hardworking, looking for a role in the IT industry.

## Key Skills

- Programming coding with Python, MATLAB;
- Creating data base, developing algorithms and mathematical models;
- Statistical Methods in Data Analysis;
- Working on Windows and Linux Operating Systems;
- Working on a High Performance Computer;
- Working on, validating, testing a large existing code "GS2";
- Solid knowledge and experience of MO applications;
- Confident usage of software Excel, SQL, SAGE;
- HTML, CSS, JavaScript, Word Press, Flask, Django;
- Source Code Editors as VCS, Anaconda-Spider, Trinket, Scratch;
- Version Control – GIT, GITHUB;
- Presentation skills and writing reports;
- Vast and deep knowledge in mathematics and physics;
- Scientifically minded, Accuracy, a logical and methodical approach to problems;
- Self-disciplined and an excellent time keeper;
- Ability to work on my own and a part of a team.

## Education

University of York ,

2015 – 2017

**MSc in Fusion Energy 2:1 (with merit)**

**Subjects included:** Fusion, Fusion technology, Fusion Laboratory which involved study of "Python" and working with data base, Statistical Methods and Data analysis including coding with MATLAB.

**Masters Course project:** "The Impact of plasma shaping on electromagnetic instabilities".

A computational project of exploring plasma behaviour in tokomaks in order to find optimal solutions, modelled by Girokinetic Equation, calculated by Numerical methods on a high performance computer. Study and evaluation of the plasma behaviour theories.

**BSc Physics 2:1**

1997 – 2001

**Subjects included:** Mathematical Analysis; Systems of Integral and Differential Equations; Theory of Probability and Statistics; Methods of Mathematical Physics; Computing Coding.

**BSc Degree Project:** “Data Analysis of process of photo splitting of nuclei with  $A = 3 - 4$ ”, a computational project of data analysis of cross-sections photonuclear reactions, which was involved creating data base, analysing and presenting data, developing mathematical models.

**East-Berkshire College**

**2005 – 2015**

**Diploma in Accountancy AAT, NVQ4**, Studied subjects: Drawing Financial Statements, Projects, which involved MO Excel and SAGE

**GCSEs** in English (B), Math (A\*)

**CLAIT:** Microsoft Excel, Word Processing, PowerPoint, Access, SQL

## **Employment History**

**International Thai Foundation      A volunteer web admin/developer      April 2019 - June 2021**

- Creation, development, maintenance an educational website embassylaw.org, used WORLD PRESS CMS, uploaded and customised themes , plugins, widgets; working with different editors, working with text, image and video content.

**Code Club**

**A p/t Volunteer Teacher Assistant**

**Feb 2020 - Now**

- Assisting Code club sessions on zoom since February 2020, developing and improving codes in Python, JavaScript, Flask, HTML, CSS, working on IDEs: rinket, Scratch, VCS.

**Dr Fabio D’Agostino**

**Data Researcher/Analyst**

**01 Dec 2020 - 20 Jan 2021**

**Venture Partner**

- It was a part-time home-based short-term project. From open resources, collecting and analysing pharmaceutical data and creating a complex data base using SQL and Excel.

**Voombox/Atlas Mobile Ltd**

**Data Scientist/Analyst**

**Sep 2019 - Oct 2020**

- Developing a mathematical model of internet traffic on a website, making practical considerations, using Advance Excel, Google Analytics, MailChimp, Mapp, Add Manager, Facebook Analytics.

**Immersive Computing Labs Ltd**

**IT technician**

**Feb 2019 - August 2019**

- Learning new software, preparing computing equipment for Virtual Reality demonstration.

**Salt Hill Centre**

**Accountant/ Admin Assistant**

**June 2009 - June 2012**

- Data inputting, recording financial activities, using SAGE, Excel and MS Office, writing
- Assisting in the preparation of Trial Balance, cash flow and other financial reports
- Dealing with external organisations and other administrative tasks as required

**Slough, Berkshire “Cancer Research UK” Shop**

**A shop assistant**

**Sep 2009 - Nov 2010**

- Helping in a stockroom, dealing with customers, overall duties, fundraising.

## **Other interests:**

Science, Science-fiction, a member of London Futurists, undertaking sports, healthy life-style, traveling, exploring historical places. Actively using modern software apps: WhatsApp, Zoom, Facebook, Twitter, Skype, Telegram. Undertaking voluntary IT jobs to help local communities.

## **References and certificates**

Available on request, A British Citizen