

# Anthony Lonsdale

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## ABOUT ME

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Holding a background in Physics and software development, I am committed to applying my expertise in the realm of Data Science. My problem-solving skills have been honed through various independent projects and three years of rigorous undergraduate research.

## TECHNICAL SKILLS

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**Languages:** TypeScript, Python, C#, C/C++, Excel VBA, LAMMPS

**Web & Back-end:** React, HTML/CSS, .NET, SQL

**Tools & Platforms:** Git, Visual Studio, Docker, Kubernetes, Azure, AWS, Linux

**Libraries & Frameworks:** Pandas, NumPy, SciPy, scikit-learn, Openpyxl, Multithreading, Asyncio, Node.js

## EDUCATION

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**Missouri University of Science and Technology**

Rolla, MO

*Bachelor of Science in Physics, 3.129 GPA*

*Aug. 2019 – Dec. 2022*

## PERSONAL PROJECTS

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**Algorithmic Trading Tool** | *Python, C#, C/C++, .NET*

June 2020 – Present

- Developed a multi-language intra-day stock trading system, integrating Python, C#, C/C++, with a .NET backend.
- Applied advanced techniques like Trinomial Tree pricing for options arbitrage, Tick Data processing, adaptive algorithms and Risk management.
- Gained professional-level expertise in financial software engineering and multi-language software integration.

## ACHIEVEMENTS

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- BSA Eagle Scout, Nationals qual. swimmer, 4x Speedo Sectionals Finalist, 4x MSHSAA All-State Swimmer.
- MO S&T Curators, Excellence, Chancellor's, Physics Department and Missouri Bright Flight Scholarships.
- Nat'l Science Olympiad Top-8 finalist, 3-yr regional Chem-a-Thon Top-4 finalist, ACS-Bayer Scholarship.
- 5x cash prize winner through 3.5 years of Undergraduate Research. Only student in Dept. with scientific paper.

## EXPERIENCE

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**React Developer**

May 2023 – October 2023

**IT Intern/Data Engineer**

May 2022 – September 2022

*ProMax Unlimited*

*Kansas City, MO*

- Used React for front-end development of Stack, and implemented major new features in Desking client.
- Automated the generation and formatting of Excel workbooks with Python and C# by injecting VBA macros.
- Developed company-wide employee tabulation system and built advanced system mockups in Excel VBA.
- Presented demos to the executive board and software team, securing funding for major company projects.

**Undergrad Research Asst. (Materials Physics)**

September 2019 – December 2022

*Missouri Univ. of Science and Technology*

*Rolla, MO*

- Automated the submission, collection, analysis, and visualization for 4 discrete magnetized systems across the 10k-1000k temperature domain.
- Boosted Molecular & Spin Dynamics simulation run times using custom LAMMPS scripts.
- Pioneered Spin-Lattice simulation methods for Iron, Cobalt and Uranium Dioxide analogues.

**Bernoulli Technologies LLC**

February 2021 – Present

*Founder, <https://bernoullitechnologies.net>*

*Liberty, MO*

- Built Python scripts and used SQL backend for election visualization and voterbase analysis.
- Developed advanced modeling tools for increasing turnout using behavior data and analytics.
- Delivered 500k+ outreach messages for 25+ campaigns and PACs to date.