

# ALEXANDER MYLNIKOV

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## PROJECTS

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- Designed a user-friendly **Trigonometric Calculator** in Python and **refactored it** in C#.
- Led teams that built the following applications & firmware:
  - **The Wall Street Crasher** - A public hedge fund driven by an ML algorithm (STACSHACK 2023 Project).
  - **SAP Virtual Machine** - Virtual Machine for SAP assembly language which runs a Turing virtual machine (High School CS Project).
  - **NSHS Schedule Website** - Website to organise students' schedules for Newton South High School (taken offline).
  - **Bluetooth Car Controller** - Firmware to process directional input via Bluetooth on a remotely-controlled car (High School Engineering Project).
  - **Conway's Game of Life** - A Game of Life implementation with an extensive GUI (University Project).
- See other projects at **GitHub Profile**

## SKILLS

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<b>Operating Systems</b>	Windows, UNIX-based
<b>Computer Languages</b>	Python, Swift, C#, Java, Arduino/C++, JS/TS
<b>Tools and Frameworks</b>	Git, Numpy, Pandas, Svelte, HTML, CSS, SQL, .NET, Unity, L <sup>A</sup> T <sub>E</sub> X
<b>Languages</b>	English (native), Russian (fluent), Spanish (fluent), French (fluent), Italian (basic)

## EXPERIENCE

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- **Russian School of Mathematics** - Data Analysis Internship *Summer 2023*
- **Dumpling Daughter, Inc** - Food Service *Summer 2022*
- **Chipotle, Inc** - Food Service *Summer 2021*

## EDUCATION

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- **BSc (Honours) in Computer Science** *June 2026 (expected)*  
University of St-Andrews *St. Andrews, Scotland*
- **High School Diploma** *June 2022*  
Newton South High School *Newton, MA, USA*
- **Extra-Curricular Advanced Mathematics** *2016-2022*  
Russian School of Mathematics *Newton, MA, USA*