

# Rangel Milushev

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## Skills

**Technical:** Java, JavaScript, NodeJS, C, C++, Python, SQL, mongoDB, PHP, Ocaml, Flask, Django, HTML, CSS, Bootstrap, D3, Linux  
**Languages:** English(fluent), German (fluent), Bulgarian (native), French (basic), Russian (basic)  
**Website:** <https://rmilushev.com>

## Projects

- Profit Expectation and Prediction Accuracy when modifying the LMSR Automated Market Maker: [implementation](#), [paper](#).
- Model-Free Reinforcement Learning Approaches for Automated Trading: [implementation](#), [paper](#).
- A Secure Contract Consensus Platform on the Blockchain with Amendment Functionality: [paper](#).
- Notable website designs: [Cartesian Network](#), [Crimson Analytics](#), [mingl.today](#), [Stratos](#)
- Android Apps: [GazPacho \(pomodoro timer\)](#), [Math Brain \(math game\)](#)
- **For more projects please visit:** <https://github.com/rangelak>

## Education

**Harvard University** | Cambridge, MA  
A.B., Computer Science, Secondary in Economics

May 2020

**Relevant coursework (Computer Science):** Introduction to Computer Science I & II, Abstraction and Design in Computation, Functional Theory of Computation, Data Structures and Algorithms, Economics and Computation, Computer Networks, Data Visualization, Artificial Intelligence

**Relevant coursework (Other):** Multivariable Calculus, Linear Algebra, Probability, Startup Research & Development, Entrepreneurial Finance

## Experience

**Co-Founder & CTO** | Crimson Analytics, Cambridge, MA & Sofia, Bulgaria

April 2018 – Present

- Took a semester off and co-founded a blockchain and cryptocurrency consulting and portfolio management company
- Built multiple reinforcement learning cryptocurrency trading bots and trading tools (*python*, *TA-Lib*, *numPy*, *enigma catalyst*)
- Performed trading in a virtual environment managing portfolios of multiple clients
- Programmed the company website and registration portal (*MEAN Stack*, *HTML*, *Bootstrap*, *CSS*)
- Led a team of engineers to design, implement and test various products, resolved internal conflicts
- Consulted numerous clients on using blockchain (ICOs, SMEs and large corporations in Turkey and Bulgaria)

**Co-Founder & CEO** | Cartesian Network, Cambridge, MA & Sofia, Bulgaria

August 2018 – May 2019

- Co-founded a free-discussion platform on the blockchain with its native prediction market and token
- Recruited team members, attracted investors and advisers, contracted partnerships
- Secured funding after pitching in front of Venture Funds and Angel Investors
- Researched prediction market models under the guidance of one of our advisers, David Parkes ([link to paper](#)).
- Developed MVP and took another semester off to oversee the design and development of the platform (*MEAN Stack*)

**Tutor/ Teaching Fellow** | Harvard College & Online Tutoring

August 2016 – Present

- Led sections, held office hours, and graded homework for CS50, the largest course on campus (2016)
- Tutored SAT Critical Reading and Math to international students online through Lever Tutoring (2018, 2019)
- Coached students through Harvard BSC who were struggling with various courses and helped them excel (2017, 2018)
- Worked in the fields of Computer Science, Economics, Mathematics, French and German

**Research Assistant** | Harvard College

March 2016 – September 2016

- Analyzed demographic statistics and researched how conflicts between elites drove Polish 19<sup>th</sup> century social transformation

## Leadership and Activities

**Tech Chair** | Harvard College European Society

August 2016 – December 2018

- Elected Technology Chair in August 2016; responsible for maintaining the group profiles and databases
- Co-organized European themed cultural events and lectures with professors to discuss various topics on the European future

**President/ VP** | Harvard College Bulgarian Club

August 2015 – Present

- VP (2015-2016): organized cultural events to celebrate and spread awareness of Bulgarian traditions on campus
- President (2016 – 2017): during my presidency, the club grew from less than 10 to more than 20 active members

**Interests:** Blockchain, Crypto, AI, Skiing, Traveling, Gastronomy, Anime, Social Psychology, Meditation, Aikido