Nicolas Tomás Campos

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Education

Harvard College (Class of 2018)   Cambridge, MA

A.B. Candidate in Physics and Mathematics. Coursework in physics includes Newtonian mechanics, Lagrangian mechanics, Hamiltonian mechanics, quantum mechanics, thermodynamics, and electromagnetism. Coursework in mathematics includes real and complex analysis, complex and arithmetic dynamics, linear algebra, abstract algebra, representation theory, topology and algebraic topology. Coursework in computer science includes C/C++, Python, HTML/CSS, Javascript, SQL database management, data structures and algorithms, dynamic programming techniques, and randomness.

Russian Language Citation, Polish Language Citation (complete May 2018)

Olympia High School (Class of 2014)   Olympia, WA

Graduated with high honors. SAT I: M: 800 V: 740. Member of National Honors Society.

Experience

Microbiology and biotechnology lab environment experience (September 2013 -June 2014)

1-year course on microbiology lab skills and techniques, including agar media preparation, bacteria collection, plate streaking, gram staining, bacterial qualification and quantification, bacterial identification, gel electrophoresis, facilitating polymerase chain reaction, and computer-based gene analysis.

Mathematics Course Assistant (September 2015- May 2016)

Course assistant for Math 23a, Fall 2015, a first-year mathematics course on linear algebra, real analysis, and differential calculus, and for Math 23b, Spring 2016, a course on integral calculus and the generalized Stokes' Theorem. Responsibilities included teaching class (1 hour/week), holding office hours (2 hours/week) and grading homework assignments and exams (6-8 hours/week).

Harvard Habitat for Humanity Domestic Director (September 2016-)

Main responsibility includes organizing Saturday builds in and around Greater Boston. Organized volunteers, worked with other student organizations on campus to plan group builds, worked with Habitat Greater Boston to secure build dates, organized vans and drivers, and generally functioned as a primary point of contact for volunteers and drivers and those looking to work with Harvard Habitat.

Software Developer, The Conduit (May 2017- September 2017)

Designing and implementing a fault-tolerant scalable distributed computing platform. Worked in Go and in a team of three developers to design a highly available efficient computation service. Implemented the distributed consensus algorithm Raft tailored for the system's needs, designed and implemented the machines coordinating service on top of Raft, and developed testing modules to simulate clusters of machines for debugging.

Activities and Interests

➢ Harvard University Band (September 2014-)
➢ Informal course and research project directed by graduate students in arithmetic dynamics (June 2016- August 2016), and in quantum mechanics and representation theory (June 2017- August 2017)
➢ Harvard Habitat for Humanity (Summer fundraising May 2016- September 2016, Domestic Operations Director September 2016-)
➢ Language: Business-level Spanish, language citations in Russian (completed) and Polish (to be completed).
➢ Other interests: digital fractal flame art made in Apophysis, written and spoken word poetry.