

# CYRUS VAFADARI

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165 BAY STATE RD ◇ BOSTON MA 02215

## EDUCATION

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### MIT

2012

B.S. Nuclear Science and Engineering, 4.6/5.0

## EXPERIENCE

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### Sookbox, LLC

2011 - Present

*CTO*

*Cambridge, MA*

- Raised \$600,000 at \$5M pre-money
- Designed and wrote most of the back-end in PHP, Python, C
- More at [sookbox.com](http://sookbox.com)

### Compact Muon Solenoid, LHC, CERN

2010

*Research Scientist*

*Geneva, Switzerland*

- Observation of Long-Range, Near-Side Angular Correlations in Proton-Proton Collisions at the LHC
- Predicting probability of piled-up vertices as a function of multiplicity in proton-proton collisions
- Analyzed over a billion collisions and Monte Carlo simulations in a C++ framework
- Used Condor for grid computing
- Discovered evidence of quark-gluon plasma in high-multiplicity p-p collisions, never before observed
- Project publication: [doi:10.1007/JHEP09\(2010\)091](https://doi.org/10.1007/JHEP09(2010)091)

### Dept. Molecular Biology, Mass. General Hospital

2009-2013

*Research Scientist*

*Boston, MA*

- Third author: "Radiation Resistance of Biological Reagents for In Situ Life Detection"
- SETG, MIT/Harvard group designing and constructing a life-detection device to work on Mars
- Designed and executed experiments simulating cosmic radiation on a flight to Mars
- Irradiated over \$40,000 of reagents with over 10 Gy of radiation from 5 different types of radiation
- Project publication: [10.1089/ast.2012.0869](https://doi.org/10.1089/ast.2012.0869)

### Barrett Technology

2009

*Mechanical Engineering Intern*

*Watertown, MA*

- Implemented revision control system for the company's firmware (SVN)
- Designed and prototyped part for WAM light-weight, dextrous robotic arm

## ACTIVITIES

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### Track and Field

2005-Present

*Pole Vault*

- MIT Varsity, PR 4.85m (16 ft)
- All-New England (DI, DII, and DIII)
- DIII New England Champion, Spring 2011

### Sigma Alpha Epsilon

2009-2013

*Founding member, 1st President*

- Nation-wide colony of the year, 2-time winner of service cup, National zeal award, top new member program, and most improved chapter
- Also served as recruitment chair (60% increase in membership in my officership),