


kasra koushan

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personal

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skills

programming

Python, Java, MATLAB

markup

HTML, CSS, LaTeX

tools

Git, SVN,
Shell, Vim

activities

Robotics
UNITY Dance
Philosophy Congress
Hackathons (3)
MOOCs in *exoplanets,*
behavioural biology,
bioinformatics,
game theory

education

2014–2018

Bachelor of Science

University of Toronto

Mathematics & Computer Science, CGPA 4.00/4.00

Coursework: Software Design, Calculus, Linear Algebra, Analysis on Manifolds, Statistics, Mechanics & Electromagnetism

experience

May–Aug '15

Theoretical Astrophysics, McGill University

Montreal, QC

Research Assistant

Produced models of exoplanet interiors to find relationships between central pressure, envelope entropy, and other parameters as constrained by mass and radius observations, supervised by Professor Andrew Cumming.

Technical details:

- Developed models in Python using SciPy, NumPy, Matplotlib
 - Adaptive-step numerical integration, root-finding, differential evolution, multi-dimensional spline interpolation, Monte Carlo schemes
- Presented at Canadian Undergraduate Physics Conference (Oct '15)

Sept '15 –

Neuroscience, University of Toronto

Toronto, ON

Research Assistant

Implementing and reviewing various sequence learning algorithms and grammar generators to be used in human sequence learning trials, under the supervision of Professor Chris Honey.

projects

Sept '15

glas4.co

MHacks 6

Web app for organization of political candidates' speeches and interviews into clips organized by topic. Worked in Python, using Indico API for machine learning.

Aug '15 –

thestrاند.ca

The Victoria College Strand

Developer of Wordpress website for the official student newspaper of Victoria College at the University of Toronto. Working in HTML, CSS, JavaScript, PHP.

awards

May 2015

Summer Undergraduate Research Award

NSERC

Grant awarded on the basis of academic achievement and research potential by the National Science and Engineering Research Council of Canada.

Sept 2015

Best Use of Parse API (2nd Place)

MHacks 6

Awarded for use of Parse API in Glas4 project at MHacks. See glas4.co.

Sept 2015

University of Toronto Scholar

University of Toronto

Awarded to top 100 students in class at the Faculty of Arts & Sciences.

May 2013

AP National Scholar

Marc Garneau CI

Awarded for scores of 5/5 on AP Calculus, Economics, European History, and English Language exams.