

ELLIOT SNOW-KROPLA

PERSONAL DATA

ADDRESS: 3-524 RUNNYMEDE ROAD, TORONTO, ONTARIO, CANADA
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WORK EXPERIENCE

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| APRIL 2020 - PRESENT | | SENIOR SOFTWARE DEVELOPER AT HUMI SENIOR CONTRIBUTOR ON AN AGILE TEAM DEVELOPING A RESTFUL RAILS API |
| MAY 2019 - PRESENT | | FOUNDER OF KLAVIERSOFT DESIGNED AND IMPLEMENTED SPONSORHUB.IO AND RUNWAYCALCULATOR.COM , INCLUDING FRONT-END (JS, BOOTSTRAP), BACK-END (FLASK), DATABASE (POSTGRES), CI & CD INFRASTRUCTURE (PYTEST, SOURCEHUT , DOCKER, HEROKU) |
| OCT 2018 - MAY 2019 | | SOFTWARE DEVELOPER AT PLATTERZ DESIGNED AND IMPLEMENTED RESTFUL APIs IN RAILS AS PART OF FAST-PACED AGILE SOFTWARE DEVELOPMENT TEAM |
| DEC 2017 - OCT 2018 | | MEDIA DATA SCIENTIST AT KCLICK HEALTH DESIGNED, DEVELOPED, AND MAINTAINED INTERNAL WEB-APPS PROVIDING REPORTING, MONITORING AND OPTIMIZATION INFORMATION TO THE MEDIA TEAM |
| MAY 2015 - NOV 2017 | | TECHNICAL COFOUNDER OF TWO AND THIRTY SOFTWARE RESPONSIBLE FOR PRODUCT DESIGN AND DEVELOPMENT, INCLUDING SHIPPING COMPLETE PRODUCT |
| 2014 - 2015 | | SOFTWARE DEVELOPER AT QRA CORP |

EDUCATION

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| AUG 2014 | MASTER OF SCIENCE IN PHYSICS, Dalhousie University , HALIFAX THESIS: “ Compiling Programs for an Adiabatic Quantum Computer ” SUPERVISOR: PROF. J. KYRIAKIDIS |
| MAY 2011 | BACHELOR OF SCIENCE IN PHYSICS, Dalhousie University , HALIFAX <i>First Class Honours, Dean’s List, Sexton Scholar</i> |

SKILLS

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| DATA MODELLING AND ANALYSIS: | SQL, SCIKIT-LEARN, TENSORFLOW, MATPLOTLIB, SCIPY, JUPYTER |
| MACHINE LEARNING TECHNIQUES: | LINEAR MODELS, LOGISTIC REGRESSION, SVM, ANN, CNN, DECISION TREES, RANDOM FORESTS |
| GENERAL PROGRAMMING: | PYTHON, C, C++, FORTRAN, C#, JAVA, RUBY, GO, RUST |
| SOFTWARE & TOOLS: | DOCKER, GIT, POSTGRESQL, FLASK, RAILS, LABVIEW |

PUBLICATIONS

SNOW-KROPLA, E. J., PIERCE, J. R., WESTERVELT, D. M., AND TRIVITAYANURAK, W.: *Cosmic Rays, aerosol formation and cloud-condensation nuclei: sensitivities to model uncertainties*, ATMOS. CHEM. PHYS., 11, 4001-4012, [HTTPS://DOI.ORG/10.5194/ACP-11-4001-2011](https://doi.org/10.5194/acp-11-4001-2011), 2011.

OUTREACH

PARTICIPATED IN “PHYSICS FUN AND DISCOVERY DAYS” OUTREACH PROGRAM FOR CHILDREN IN GRADES 6-12, INCLUDING:

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| PLANETARIUM SHOWS | USED THE HALIFAX PLANETARIUM TO SHOW STUDENTS TOPICS IN ASTRONOMY, ASTRO-PHYSICS AND ANCIENT MYTHOLOGY |
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| LIQUID NITROGEN SHOWS | USED LIQUID NITROGEN TO DEMONSTRATE HOW MATERIAL PROPERTIES CHANGE AT A RANGE OF TEMPERATURE SCALES INCLUDING SUPERCONDUCTIVITY, CONDENSING LIQUID OXYGEN, AND MAKING A SALAD WITH A HAMMER |
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| DISCOVERY ROOM | GAVE STUDENTS HANDS-ON ACTIVITIES THAT DEMONSTRATE PHYSICAL PRINCIPLES SUCH AS FREEZING MOTION WITH A STROBE LIGHT, MEASURING ELECTRICAL SIGNALS OF THE HEART, AND ACOUSTICS OF THE VOICE |
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