

KRISHNA VAIDYANATHAN

krishnarules@gmail.com

CURRENT POSITION

Backend Engineer at BenchSci, Toronto.

EDUCATION

University of Waterloo , Waterloo, Canada <i>M.Math (Thesis), Computer Science</i>	Sep 2015 – Aug 2017
PSG College of Technology , Coimbatore, India <i>Integrated M.Sc, Theoretical Computer Science</i>	Jun 2010 – May 2015

INDUSTRY EXPERIENCE

Backend Engineer - BenchSci, Toronto <ul style="list-style-type: none">Managed a distributed web crawler.Designed webpages using NodeJS and React.Interfacing with (and creating a few) RESTful APIs.Interfacing with a graph database (Neo4j).	Sep 2017 – current
Software Development Engineer Intern - Amazon Development Center, Chennai <ul style="list-style-type: none">Developed an internal tool to static analyze codebases by generating a graph of dependencies and isolating sections of the code that is affected by check-ins.Worked on Facebook's pfff tool and added features to enrichen the graph generated by pfff.Ported graph from pfff to TitanDB, a graph database, and wrote queries to derive insights from it.Code: https://github.com/krishnavaidy/pfff	Jan 2015 – July, 2015

RESEARCH EXPERIENCE

Research Assistant - University of Waterloo, Canada Supervisor: Prof. Naomi Nishimura <ul style="list-style-type: none">Worked on reconfiguration problems in graph coloring.	Sep, 2015 – Aug, 2017
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PUBLICATIONS

- Krishna Vaidyanathan. *"Reconfiguring Graph Colorings"*. MS thesis. University of Waterloo, 2017.
- Robin Cohen, Alan Tsang, Krishna Vaidyanathan, Haotian Zhang. *"Analyzing Opinion Dynamics in Online Social Networks"*. Accepted, to appear in BigDIA (Big Data and Information Analytics).
- Jasine Babu, L. Sunil Chandran, Krishna Vaidyanathan. *"Rainbow matchings in strongly edge-colored graphs"*. Discrete Mathematics 338.7 (2015): 1191-1196.

TECHNICAL SKILLS

Languages	: Python, Javascript, C++, OCaml
Platforms	: Linux, Windows
Tools	: MATLAB, L ^A T _E X, Neo4j, React

EXTRA CURRICULAR ACTIVITIES

- Graduate Ambassador* for the Cheriton School of Computer Science, University of Waterloo. I answered queries from prospective graduate students about course load, research areas, student life, etc.
- Completed levels N5 and N4 in the *Japanese Language Proficiency Test*.