

Vaastav Anand

69, 2660 Wesbrook Mall, Vancouver BC, V6T 0A5
<https://vaastavanand.com/>

PUBLICATIONS Vaastav Anand. *Dara : Hybrid Model Checking of Distributed Systems*. In *The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, ESEC/FSE 2018, Lake Buena Vista, Florida, USA. (SRC)*

RESEARCH *Dara [In development]* 2018

- Dara models distributed systems from execution logs. Models are checked against specifications by an abstract and an implementation-level model checker.
- <https://github.com/DARA-Project/dara>

eTone 2017-2018

- A tone matching game created to measure the brain myelination in people while learning tonal languages.
- Member of the Language Sciences Initiative Communicating Mind and Body Working Group.

Undergraduate Research Opportunities Conference 2016
University of Waterloo

- An undergraduate conference for prospective grad students.
- Worked on a Bioinformatics mini project on Tandem Mass Spectroscopy.

EDUCATION *MSc, Computer Science* 2018-2020
University of British Columbia, Vancouver, BC

Bachelors of Science, Computer Science 2013-2018
University of British Columbia, Vancouver, BC

EMPLOYMENT *Graduate Teaching Assistant* 2018
University of British Columbia, Department of Computer Science

- 1 semester TA for Distributed Systems (CPSC 416) 2018

Academic Assistant 2018
Vancouver Summer Program

- Teaching Assistant for the Algorithms and the World Wide Web course.

Undergraduate Research Assistant 2018
University of British Columbia, Under Ivan Beschastnikh

- Designed and developed Dara, a tool for model checking distributed systems.

Software Engineering Intern 2017
NVIDIA - MODS (Modular Diagnostics) Team

- Implemented memory repair sequences to repair bad parts of High Bandwidth Memory(HBM).
- Designed, developed and implemented a CUDA based full memory stress test.

Software Engineering Intern 2016
NVIDIA - MODS (Modular Diagnostics) Team

- Implemented a synchronization option for CUDA based linpack tests to synchronize CUDA kernel launches within 30us across multiple GPUs.

Software Developer Intern 2015-2016
Thinkbox Software - Sequoia Team

- Designed, developed and implemented the 3D PDF export option in Sequoia.

Undergraduate Teaching Assistant 2014-2018
University of British Columbia, Department of Computer Science

- 1 semester TA for Introduction to Software Engineering (CPSC 210) 2018
- 1 semester TA for Advanced Operating Systems (CPSC 415) 2017
- 1 semester TA for Intermediate Algorithm Design and Analysis (CPSC 320) 2017
- 1 semester TA for Computer Hardware and Operating Systems (CPSC 313) 2016
- 1 semester TA for Introduction to Computer Systems (CPSC 213) 2015
- 3 semesters TA for Models of Computation (CPSC 121) 2014-2015

AWARDS

2nd Place, FSE'18 SRC 2018
SIGSOFT CAPS Award 2018
UBC International Tuition Award 2018-2019
Work Learn International Undergraduate Research Award 2018
UBC Faculty of Science, International Student Award 2015, 2018
ACM ICPC PacNW Regional Contest Division 2 Champion 2017
UBC Trek Excellence Scholarship 2016-17, 2017-2018
UBC Dean's Honor List 2014, 2015, 2017
UBC Computer Science Student Service Award 2015
GIIS Global Citizen Scholarship 2011-2013

VOLUNTEER

Academic Service 2018

- Sub-Reviewer for Prof. Ivan Beschastnikh
 - ESEM 2018, ESEC/FSE NIER 2018
- Sub-Reviewer for William Anthony Mason
 - SIGCSE 2019

Undergrad Representative 2014-2016

- Provided insight into the experience of undergraduates enrolled in the CS program towards the course curriculum.

SKILLS

Programming Languages: C++, Go, Python, C, Bash, JavaScript, Java, CUDA
Tools: IntelliJ, GDB, Eclipse, Visual Studio, Git, Perforce, Vim, L^AT_EX

PROJECTS

Distributed Clocks 2018-current

Inter-operable vector clock logging library

- Distributed clocks implements vector clocks in Go, Java, C++ and C
- <https://github.com/DistributedClocks>

INTERESTS

Computing: Distributed Systems, Operating Systems, Software Engineering
Extra Curricular: Soccer, Languages.