Jarun Ramar

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Education

University of British Columbia

MASTER OF SCIENCE IN COMPUTER SCIENCE

• Research Assistant advised by Margo Seltzer (Systopia)

Carleton College

BACHELOR OF ARTS IN COMPUTER SCIENCE, MATHEMATICS, AND PUBLIC POLICY

- University of British Columbia, Vancouver, Canada Research in an External University Fall 2019
- Semester Abroad in Cambridge, Cambridge, England Summer 2019

Skills

Languages Python, Java, JavaScript, C, R, Scheme, SQLite, Postgres Frameworks Django, React, Flask, REST **Operating Systems** Windows, macOS, Linux (Debian/Ubuntu, Fedora)

Experience _____

Wells Fargo

PROGRAM ASSOCIATE

- Worked in a variety of capacities in both SCRUM and Waterfall teams to develop front to back end technologies.
- Migrated the Loan Forgiveness Tool onto a newly built Java DB, leveraging REST and JavaDB.
- Fully built out QA for two microservices.

Overlay Inc.

SOFTWARE ENGINEER INTERN

- Developed and implemented an edge detection algorithm in an existing iOS AR platform.
- Application is for surveyors building topographical maps via iPhone AR camera.
- Algorithm built to detect and distinguish between the top of a telephone pole and surroundings to enable ease of use for surveyors.

View Inc.

PILOT R&D INTERN

- Devised and automated the failure analysis of electrochromic glass.
- Worked with failure experts to develop a streamlined workflow from field analysis to cleaned data and corresponded with factory in Missouri to understand critical failures
- Presented the work to the FA group and pointed to key places for improvements and showcased a basic computer vision model for automation.

Leadership Experience

Tenure-Track Hiring Committee

MATHEMATICS STUDENT

- Was the first point of undergraduate student contact for tenure-track Math professorial candidates.
- Part of discussions with the Math department on which candidates fit Carleton's culture and standard to be hired.

Projects and Research _____

End to End Provenance tool

VISITING INTERNATIONAL RESEARCH STUDENT

- A multi-language tool for displaying and connecting data provenance from the application level through to the system level.
- Visualized through the same model written in Python and R, was able to, for the first time, fully implement end to end provenance collection.
- Motivation was to enable scientists to reproduce and peer-review work in a systematic manner.

ALCH: An Imperative Language for the CRN-TAM

UNDERGRADUATE RESEARCHER

- Built a high-level language in C to simulate the Chemical Reaction Network-Controlled Tile Assembly Model.
- Working off of Erik Winfree and Nicholas Schiefer's CRN-TAM construction, developed a model to simulate the mechanics of the system.
- Using the language, we were able to show certain properties unique to the CRN-TAM, and give a schema for a well-known problem: strict construction of the Sierpinski Triangle.
- Motivation was to enable practioners a way to visualize and experiment with a complicated biological computational model.

Vancouver, BC September 2021 - June 2023

Northfield, MN September 2016 - June 2020

> Minneapolis, MN August 2020 - May 2021

Menlo Park, CA June 2018 - Sept. 2018

Milpitas, CA June 2017 - Sept. 2017

Carleton College January 2020 – March 2020

Carleton College

April 2019 - June 2019

October 2019 - December 2019