

# Damian Diago D'monte

Fredericton, NB

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## EDUCATION

**University of New Brunswick**

*Master of Computer Science*

**Fredericton, NB**

*September 2019 - May 2021*

**Fr. Conceicao Rodrigues College of Engineering, Univeristy of Mumbai**

*Bachelor of Engineering (Computer Engineering)*

**Mumbai, Maharashtra**

*May 2013 - May 2016*

## KEY SKILLS

Languages C/C++, Pro\*C, Core Java, WebAssembly, Racket, Python, R, JavaScript, HTML/CSS, MySQL  
Technologies Docker, GitLab CI/CD, Git, SVN, CMake, GDB, Putty, VSCode, Eclipse, L<sup>A</sup>T<sub>E</sub>X

## PUBLICATIONS & PRESENTATIONS

**1. Research Paper : D'monte, Damian Diago**, Georgiy Krylov, Daryl Maier, Gerhard W. Dueck, and Kenneth B. Kent. An elf-based storage option for the eclipse omr ahead-of-time compiler. In *Proceedings of the 30th Annual International Conference on Computer Science and Software Engineering*, CASCON '20, page 173–178, 2020. URL: <https://dl.acm.org/doi/abs/10.5555/3432601.3432624>.

**2. Poster : D'monte, Damian Diago**, Georgiy Krylov, Daryl Maier, Gerhard W. Dueck, and Kenneth B. Kent. Persistent storage for a webassembly ahead-of-time compiler using eclipse omr. In *30th Annual International Conference on Computer Science and Software Engineering*, CASCON '20, 2020.

## ACADEMIC PROJECTS

**Forecasting of Nominal GDP using Economic Indicators**

*Jan 2020 - April 2020*

- Explored R language and its popular libraries like tidyverse and ggplot.
- Assembled a dataset of major economic indicators from multiple online sources.
- Performed exploratory data analysis on the dataset.
- Performed modelling by exploring multiple models like linear regression, random forest, SVM.

**Hybrid Model to Detect Malicious Executables (Bachelors Final Year Project)**

*July 2016 - May 2016*

- Assembled a dataset of malicious and non-malicious PE Executables and DLL libraries.
- Extracted the binary data of PE-executables and applied a n-gram based approach to finalize a feature set.
- Modelled the dataset using SVM classification.
- Developed a GUI using JApplets and JSwing to automate the training, testing and prediction process.

## EXPERIENCE

**IBM Center of Advance Studies — Atlantic**

*Graduate Research Assistant*

**Fredericton, Canada**

*Sept 2019 - Present*

- **Project:** Ahead-Of-Time Compilation in Eclipse OMR
- **Technologies:** Unix, C/C++, GDB, CMake, VScode, Git, GitLab, CI/CD, Docker, Putty, Hyper-V.
- Contributed to the Open Source Eclipse OMR code base.
- Researched about shared cache and ELF-based compiled code storage options for Eclipse OMR AOT generated code.
- Refactored the shared cache code.
- Developed a ELF Shared Object generator for storing WebAssembly AOT generated code.

**Tata Consultancy Servies Limited**

*Software Developer*

**Mumbai, India**

*Jan 2017 - Aug 2019*

- **Product/Team:** TCS BANCS Securities Trading - Order Routing System (ORS/OMS) Team
- **Domain:** Capital Markets - Front Office
- **Technologies:** Unix, Pro\*C, C/C++, Oracle 11g, PL/SQL PL/SQL Developer, FIX 4.4, GDB, Bash Shell Scripting, Putty.
- Functional knowledge about Capital Markets (Equity, Derivatives, Algorithmic Trading, Currency and Mutual Funds).
- Worked with premier institutional and retail clients: BNP Paribas, Investec, Nomura, HDFC Securities, Axis Securities, etc.
- Developed change requests, refactored code and fixed multiple bugs.
- Performed application analysis of UAT, SIT and Production environments.
- Provided production support (onsite/off-site) to institutional and retail trading desks during critical market hours.
- Had continuous liaison with onsite/off-site teams for understanding and resolving SIT, UAT and Production Issues.
- Successfully made various modules and patches GO-LIVE.
- Engaged with BNPP and Fidessa application testing teams by providing them support.
- Reported, replicated and resolved multiple defects that were encountered.
- Deployed TCS BaNCS Securities Trading (FNO) on UAT/SIT/Production application server's.
- Successfully transitioned the application from SIT to Production (Go Live).

## AWARDS AND ACHIEVEMENTS

- Research fellowship grant of 22,500/yr CAD with IBM CAS on the Eclipse OMR project, 2019-2021.
- Awarded "Star of the Month" twice for outstanding performance at TCS, Nov 2017 and Jan 2018.

## EXTRA-CURRICULAR ACTIVITIES

- "Ask Me Anthing" Volunteer at 30th Annual International Conference on Computer Science and Software Engineering.
- Secretary at UNB Computer Science Graduate Student Association (CSGSA), 2019 - present.
- Attained Sun Java Programming Language (SL-275) Course with 70% at Aptech Education Center.
- Presented in NEXTECH-2013 National Level Technical Project Exhibition and Competition.
- Participated in workshops and completed several online courses on Udemy, Coursera and DataCamp.

## INTERESTS

- |             |                  |
|-------------|------------------|
| - Gardening | - Numismatics    |
| - Cooking   | - Playing Tennis |
| - Running   |                  |