Madhurima Chakraborty

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PhD candidate, CSE, UCR

Research Interest

I am broadly interested in the applied and fundamental aspects of programming languages, applications of software engineering and intelligent decision making; particularly developing structured program analysis and automated software testing/debugging techniques.

Technical skills

Languages: JavaScript, Python, Java, C/C++, SQL, HTML5/CSS, Cobol

JavaScript Libraries, Frameworks and Tools: Node.js, Express.js, Jest, Puppeteer, WALA, Jalangi2

Experience

Research

9/2019 - Graduate Student Researcher, University of California, Riverside, CA

present Design of robust Static Call Graph techniques for modern, framework-based JavaScript applications: Invent techniques to discover more of the crucial functions and call edges in modern web applications.

Teaching

Fall 2020: CS180: Introduction to Software Engineering,

CS, UC Riverside.

Work

1/2018 - Product Specialist, Cognizant, WB, India

5/2019 Migrated mainframe based applications to Java APIs and the data from DB2 and VSAM to H-Base and Titan DB.

8/2015 - Senior Systems Engineer, Infosys, Orissa, India

12/2017 Worked on development and maintenance of Mainframe applications.

Publications

2021 **Madhurima Chakraborty**, Renzo Olivares, Manu Sridharan, and Behnaz Hassanshahi. Techniques for evaluating pragmatic call graph builders. In *SIGSOFT International Symposium on Software Testing and Analysis (ISSTA)*. ACM, 2021. (Poster).

2021 **Madhurima Chakraborty**. A study of call graph effectiveness for framework-based web applications. In *SIGPLAN* conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH). ACM, 2021. (Student Research Competition).

Education

2019-present PhD, Computer Science & Engineering,

University of California, Riverside, CA, USA.

CGPA: **3.86**/4

Advisor: Manu Sridharan

2011–2015: Bachelor of Technology, Information Technology,

RCC IIT, Kolkata, WB, India.

CGPA: **8.6**/10 Class Rank: **3**/103

Accolades & Honors

Academic

2021 ACM Student Research Competition : Graduate Category Winner,

Splash.

2020 WiML ICLR 2020 Travel Grant,

Women in Machine Learning.

2020 Bug recognized at DeepCode's Bug Bounty program,

DeepCode.ai.

2019 Dean's Distinguished Fellowship,

UC Riverside.

2018 Google Nanodegree Scholarship to Front End Web Developer,

Google India & Udacity.

2018 Shortlisted for International Women's Hackathon.

Hackerearth.

Professional

2018 **1 Star Award**,

For exceptional performance over the quarter

2017 Insta Award,

For successful implementation of a critical high visibility project

2017 Insta Award,

For excellent analytical skills

2016 High Performer Trainee,

Awarded to top 10% employees

Extracurricular

2017 Division-level Public Speaking Champion,

2017 Triple Crown Award,

Synergistic Activities

Mentor: Open Source Day Summer'21.

Undergraduate Research Mentor: Renzo Olivares.

Student Volunteer: PLDI'20, SPLASH'20.

Cognizant Technology Solutions.

Infosys Limited.

Infosys Limited.

Infosys Limited.

Toastmasters International.

Toastmasters International.