

Himika Dastidar

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Work Experience

Improving Inc. Software Developer Consultant June 2022 - Present
React, TypeScript, Jest, Junit, Java, Spring Boot, SQL Server, Git

- Modernized Commodity Trading and Risk Management application into a web application using React, Spring Boot and SQL Server.
- Collaborated with product owner and developers to gather requirements and design features.
- Wrote comprehensive unit tests to assist in debugging and ensure the development of high-quality and reliable features and enhancements.
- Developed front-end experience using internal react component libraries to develop a seamless and consistent front end that is visually appealing.
- Obtained **Professional Scrum Master** and, **Professional Scrum Facilitation Skills** certifications.
- Presented a lunch and learn seminar about Jest to my colleagues at Improving, fostering a culture of continuous learning and growth. This led to further discussions about various testing methodologies such as red/green testing and test-driven development.

Garmin Software Quality Assurance Intern Jan 2021- December 2021
Pytest, Python, Octane, JIRA, Git, Jenkins

- Built Jenkins CI/CD pipelines to run jobs such as running unit tests and automated end-to-end testing reducing testing time from 180 second per suite run to 45 second per suite run.
- Streamlined testing processes by automating manual tests and analysis tasks using Python and bash scripts, Selenium and Appium resulting in reduced analysis time by 75 percent.
- Took charge of developing and designing product acceptance tests for 3-5 interns, ensuring adherence to product specifications, while maintaining high standards of quality.
- Conducted thorough reviews, synthesis, and reported test results to product and platform tech teams, enabling better visibility into issues and facilitating faster bug fixes.

Benevity Software Developer Intern May 2020 – Aug 2020
PHP, Agile, Mac CLI, VueJS, Python, Git, JS/HTML/CSS

- Developed a proof-of-concept (POC) recommendation system using Python effectively matching customers with volunteering opportunities. Expanded the POC to scale using AWS SageMaker, processing production data and providing personalized recommendation.
- Collaborated with developers to enhance SaaS application, delivering new features, addressing bugs, and improving the user experience for increased customer satisfaction.

Projects and Activities

Mentorship Application Portal Big Brothers Big Sisters of Calgary 2020- 2021
JavaScript, NodeJS, VueJS, Firebase

- Delivered a full-stack web application that is currently used across Alberta to Big Brothers Big Sisters of Calgary to improve the process of onboarding mentors.
- Hired on as a contractor to support application further while it is undergoing beta-testing.
- GitHub link: <https://tinyurl.com/2p8jext9>, YouTube Demo: <https://tinyurl.com/3jpuhyju>

Mindful App

Swift, Firebase

- Crafted a seamless and intuitive multi-page Swift application, backed by Firebase, designed to track daily mood and activities on a calendar.
- GitHub link: <https://tinyurl.com/yjcjc8vh>, YouTube demo: <https://tinyurl.com/2p852rwu>

Information Security Club

University of Calgary

2019-2020

Python, Kali Linux, Linux CLI, Cryptography, Capture the flag (CTF)

- Delivered Cryptography workshop, teaching ciphers and decryption techniques to students.
- Interviewed, hired, and trained six junior executives thus building the infosec club further.
- Hosted and facilitated weekly CTF style competitions to teach information security concepts to provide practical skills to university students and build an infosec community.

Competitive Programming Club

University of Calgary

2019-2020

Python, Java

- Solved problem sets under time constraints while optimizing for time and space-complexity.
- Improved problem-solving skills and learned to code efficiently in Python and Java.

Hack The Change Hackathon

University of Calgary

2021

ReactJS, Firebase

- Created a proof-of-concept application that gamifies making your own mental health a priority using a virtual companion called Tama-got-U.
- Winner of Hack-the-Change 2021 Hackathon and awarded \$2500 to donate to a charity of choice.
- GitHub link: <https://tinyurl.com/ycx48bna>

Calgary Hacks Hackathon

University of Calgary

2019

Python, Java, Raspberry Pi, JavaFX

- Created a proof-of-concept application that scans barcodes and outputs whether an item is reusable, recyclable, compostable or trash in 24 hours with two other first-year students.
- Placed 3rd in the Calgary Hacks Hackathon among 60+ teams.

Education

Bachelor of Science in Computer Science

University of Calgary

2022

- Awarded grants to attend conferences such as CAN-CWIC and Grace Hopper Celebration where I was able to learn about cutting edge trends in technology and met successful women in industry.

Master of Science in Cancer Biology

University of Calgary

2016

- Published 3 peer-reviewed articles in reputable academic journals such as Nature and Cell.
- Awarded 3 travel grants and 3 scholarships in 3 years, awarded the best MSc student in 2014.

Bachelors of Health Sciences (Hons)

University of Calgary

2012

- Conducted summer research in genetic engineering and presented findings in national and international competitions (iGEM).
- Awarded stipend to travel to Imperial College, London, UK to conduct in cancer research.

Other Work Experiences

Emergency Communication Officer

City of Calgary

2017- 2021

- Call evaluated for EMS, Fire and Police service for the City of Calgary and Rocky View County.
- Critically analyzed and tactically responded to callers to reduce harm, de-escalate situations, and obtain adequate and relevant information for responders.
- Maintained a calm and compassionate demeanor with callers in high stress situations such as overdosing, administering CPR over the phone and de-escalating situations involving weapons.

Teaching Assistant

University of Calgary

2012-2013

- Successfully wrote grants and received \$35000 in funding for an undergraduate project.
- Led a team of 12 students to an international synthetic biology competition in Boston, MA.
- Mentored students and helped them to troubleshoot technical biology experiments, organized team to deliver project milestones.
- Won the best Food and Energy project in an international Genetically Engineered Machine (iGEM). competition among 100s of national and international teams in Boston, MA.