

# BILAL UDDIN

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## Education

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### College of North Atlantic

*Diploma in Software Development (Co-op)*

**Sep. 2021 – Sep. 2024**

*Prince Philip Drive Campus, St. John's, NL*

### Memorial University of Newfoundland

*M.Sc. in Applied Mathematics (Thesis)*

**Sep. 2016 – Sep. 2018**

*St. John's, NL, Canada*

### Shahjalal University of Science & Technology

*B.Sc. in Mathematics*

**Dec. 2009 – Jan. 2014**

*Sylhet, Bangladesh*

## Skills

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- |          |              |                             |                            |
|----------|--------------|-----------------------------|----------------------------|
| • Python | • MySQL      | • Data Processing           | • Effective Communications |
| • C++    | • PostgreSQL | • Exploratory Data Analysis | • Problem Solving          |
| • MATLAB | • MS Excel   | • AWS (EC2)                 | • Time Management          |
| • R      | • HTML & CSS | • git/github                | • Team Work                |

## Recent Coursework

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- |                                |                                              |
|--------------------------------|----------------------------------------------|
| • Python Programming           | • Security for Programmers                   |
| • Relational Database          | • Foundations of Computing Systems           |
| • Web & Mobile App Development | • Statistics for Science                     |
| • Operating Systems            | • Database Design & Basic SQL in PostgreSQL. |
| • System Analysis              | • SQL for Data Science                       |

## Experience

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### Memorial University of Newfoundland

*Research Assistant*

**Sep. 2016 – Sep. 2018**

*St. John's, NL*

- Developed a time-parallel algorithm to solve time-dependent partial differential equations (PDEs).
- Used low-order methods for time integration and expected higher-order solutions because of parallelism.
- Used Moving Mesh Methods for spatial discretization and parallel methods for time discretization.
- Wrote codes for the algorithm in C++ and MATLAB and ran the simulations using some practical problems.
- Tested the C++ codes using a software called RIDC to see the impact of parallelism in the methods.
- Visualized the results in MATLAB to see the impact of the moving mesh.
- Concluded with the finding that time parallel methods can give higher-order solutions using low-order integrators.

### ***Teaching Assistant***

- Worked as a tutor at the Math help centre.
- Graded assignments and exam papers of undergraduate Mathematics courses.
- Uploaded students' grade to D2L.
- Helped course instructors in final exams invigilation.

### **S&P Data Digital**

**October 2018 – May 2019**

#### ***Call Center Customer Service Associate***

*St. John's, NL*

- Resolved customers' complaints and provided excellent customer service.
- Provided customers with basic technical support about cellphone networks and redirected them to IT departments when there was a serious technical issue.
- Worked as a floor support to assist the newly hired co-workers.

### **EMK-Investment Ltd. (Burger King)**

**May. 2019 – August 2021**

#### ***Assistant Manager***

*194 Totbay Rd., St. John's, NL*

- Supervised 5-10 team members and trained new employees.
- Answered phone calls, and resolved customers' complaints.
- Monitored hourly sales, counted cash, and prepared daily sales reports.
- Ensured that team members always followed health and safety protocols.