

DIYA BURMAN

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in [linkedin.com/in/1991diyaburman](https://www.linkedin.com/in/1991diyaburman) 🌐 <https://github.com/kikku2506/ProjectsList>

Software Engineer with 2+ years of experience developing robust high-volume enterprise applications. Awarded Best New Recruit by Wipro Ltd. for improving code efficiency for a well known Wall Street Investment Firm resulting in \$4 million annual savings. A team player with a strong user focus and analytical aptitude.

University of Waterloo
Master of Mathematics - Computer Science 2018
Canada Learning Code Mentor

Amity University Delhi
Bachelor of Technology - Computer Science 2014
50% Merit Scholarship by Amity University | Volunteer - SOS Children's Village and HelpAge India

SKILLS

PROCESS KNOWLEDGE & TOOLS: Object-Oriented Programming, Web & API Development, RESTful Services, Unit Testing, CI/CD, AGILE, AWS (EC2,S3), Docker, PhoneGap, Google BigQuery, SnapLogic, Coveo, SVN, JIRA, Gerrit, Confluence, Linux, Windows
PROGRAMMING: Python, Java, JavaScript, PHP, HTML5 & CSS3, Node.js, React.js, Flask, SQL (Oracle 12C, PostgreSQL, MySQL), MongoDB, Git

EMPLOYMENT

UNIVERSITY OF WATERLOO - [Departmental Director for Computer Science | Graduate Teaching Assistant](#) Canada - May 2017 to Apr. 2018

- Representative of the Graduate student body their interests to the university administration – oversaw availability of funding support, services, and interactive events for students.
- Assisted faculty in teaching undergraduate courses, mentoring students, preparing course material, and conducting tutorials and examinations.

BLACKBERRY LTD. - [Software Development Intern](#) Canada - Sep. 2017 to Dec. 2017

Responsible for the design and implementation of REST APIs and web applications as components of a suite of enterprise applications.

- Integrated fixes for security vulnerabilities such as XSS and XFS for the Laravel based forms, leading to a reduction of nearly 100 customer complaints on an average monthly basis.
- Revamped existing web forms across 3 enterprise products to utilize the Coveo analytics tools platform using JavaScript & JQuery.
- Improved query time from the PHP based forms to the MySQL database using a Java applet to bridge the connection and designing SnapLogic pipelines for the back-end processing.

WIPRO LTD. - [Project Engineer](#) India - Jul. 2014 to Apr. 2016

Involved in requirements gathering, development, and testing of enterprise applications for clients in financial services and healthcare.

- Developed a smart inventory system for a well-known pharmaceutical company, using OpenLMIS and delivering real-time updates, predicting purchase patterns, and furnishing seasonal sales forecast.
- Developed a middleware application for handling transaction validations and data conversion for trade processing, reducing ~10 transactional errors per day.
- Established remote development and testing environment via Docker and bash scripts.
- Worked on automating 3 legacy applications in their entirety and reducing support and maintenance costs by \$4 million dollars annually.

OIL AND NATURAL GAS CORPORATION LTD - [Software Development Intern](#) India - May 2013 to Jul. 2013

- Developed an email-based complaint management system to simplify issue-ticketing, issue assignment, usability and monitor performance.

PROJECTS

ULTRA LARGE Q&A REPOSITORY ANALYSIS

- Analysed the StackOverflow dataset to predict 'time-until-answer' for new posts utilizing 10 Fold Cross-Validation and a Random Forest Classifier.
- Additionally developed a Perceptron based tag-recommendation system for new posts to increase the success-rate of resolution.

THOUGHTPEACE - MENTAL HEALTH APP

Designed and developed, in a team of 3, a mental health support and intervention app:

- Implemented a proprietary algorithm based on clinical studies provided by the Health Informatics Department to provide daily mental health screens and psychological exercises to deal with anxiety.
- Intervention system utilizing real-time monitoring of heart-rate through a smart-watch and the Android notification system.
- Simplified UI making the app accessible to all regardless of age or technological background.

CONNEKTOR

Developed, in a team of 2, a smart cross-platform schedule manager utilizing the U-Waterloo API and student attendance data from events and course, to make socializing easy with auto-generated schedule integrated with social networking.

BENCHMARKING MODERN AMQP MESSAGE BROKERS THROUGH LOAD TESTING

Benchmarked theActiveMQ and RabbitMQ systems, investigating tail latency and scalability under various workloads.

SUDOKU PUZZLE SOLVER

Implemented a Python program to solve any sudoku puzzle using constraint propagation and search algorithms. Inspired by the essay - "Solving Every Sudoku Puzzle" – by Peter Norvig (Google AI).