Prantar **Bhowmik**

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Experience

Royal Bank of Canada *Toronto, CA*
SOFTWARE DEVELOPER - AMPLIFY TEAM *May 2019 – Aug 2019*
- Developed a machine learning model using Random Forest Regression, achieving a prediction accuracy of 86%
- Built REST API and database using Django to perform token-based authentication, automated claims & crowd-sourcing data
- Created automated claims algorithm with cost saving potential of $40,000+ annually in storage and administration fees
- Managed Docker images and created test suites to provide automated coverage of 71% of the codebase

University of Toronto *Toronto, CA*
FULL STACK DEVELOPER - COMPUTER SCIENCE, MATH AND STATS DEPARTMENT *May 2017 – Apr 2018*
- Utilized Django to connect backend database operations with frontend & created scheduler for planning events
- Created a filterable, search-able, and editable table in Angular to display the user information in an organized dashboard
- Improved automated testing, added continuous integration, and coverage testing to minimize bugs in software
- Aided in the creation and maintenance of the SQLite database which stored all user information

University of Toronto *Toronto, CA*
TEACHING ASSISTANT - COMPUTER SCIENCE, MATH AND STATS DEPARTMENT *Sept 2016 – Present*
- Introduction to Computer Science: taught programming in Python, data structures, sorting, searching & complexity
- Introduction to Computer Programming: taught OOP in Python, encapsulation, linked data structures, recursion, testing
- Software Design: taught Java, version control, build management, unit testing, refactoring, and design patterns
- Operating Systems: taught principles of operating systems, concurrency problems, memory management, file systems

Education

University of Toronto *Toronto, CA*
B.SC. IN STATISTICS *Sept 2015 – Dec 2019*
Undergrad Courses: Computer Science Capstone, Software Engineering, Principles of Programming Languages, Intro. Databases

Projects & Involvement

Let Me Know *letmeknow.news*
FULL STACK DEVELOPER *Oct 2016 – Apr 2019*
- Led the development of a news aggregation website which was a MHacks 8 finalist and received $3000+ in seed funding
- Used Django in backend, which is multi-processed to make fetching articles faster. Angular is used to create a single page app to create seamless user experience. PostgresSQL stores user preferences to provide curated trending articles
- Built dashboard which displays real-time trending events, relevant articles, tweets, pictures, breaking events. Uses NLP to provide a sentiment analysis, relevant keywords, expected reading time, article summary, and media perspectives

CS Enrichment Club *csec.club*
LECTURER, SYSTEM ADMINISTRATOR *Oct 2016 – Apr 2019*
- Delivered seminars on various topics in technology & taught group of 200+ students competitive programming concepts
- Created test cases and shared solution code to homework questions presented to club members as practice
- Handled the day to day duties which involved maintaining, developing and publishing the virtual resources of the club

Awards

2nd Place	**Facebook University Coding Challenge**, solved complex algorithmic problems	*2018*
3rd Place	**Microsoft University Coding Challenge**, solved complex problems in teams	*2017*
3rd Place	**UofT Finance Hacks**, scans product barcode to inform user of the environmental cost	*2016*
4th Place	**UofT Hub Startup Challenge**, pitched startup to panel of investors	*2017*
5th Place	**Michigan Hacks 8**, developed a news aggregation platform	*2016*

Technical Skills

Languages/Markup: Python, Java, C, C++, Javascript, Typescript, Go, Bash, Haskell, MySQL, Solidity, HTML, CSS
Frameworks/Other: Angular, React, React Native, Django, Docker, Kubernetes, Travis, Git, PWA, AMP, Maven