

# Sougata Dafader

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(857) 352 3682 • Boston, MA – 02120 • Available: **December 2019**

## EDUCATION

**Northeastern University**, Boston, MA Sept. 2017 – Present  
**College of Computer and Information Science**, GPA: 3.4/4 Dec. 2019  
Candidate for a Master of Science in Computer Science  
Coursework: Web Dev, Algorithms, Information Retrieval, Program Design Paradigms, Computer Systems.  
**West Bengal University of Technology**, Kolkata, India  
Bachelor of Technology in Computer Science Aug 2009 – July 2013  
Related Courses: Algorithms, Natural Language Processing, Web Development, Data Structures.

## WORK EXPERIENCE

**Fidelity Investments** Boston, MA  
*FCAT Developer Co-op (Full Stack)* Jan. 2019– June 2019

- Ideated solution for our problem statement, created prototype and user-tested it in an agile environment.
- Created a cross-platform app for **IOS** and **Android** using **React Native** and **Node.js**.
- Created custom components on top existing libraries and created the whole navigation flow of the app.

**Northeastern University**, Boston, MA  
*Web Developer* – College of Arts, Media and Design & Global Resilience Institute (GRI) Jan. 2018 – Present

- Developed several responsive layouts for the website using **PHP**, **JavaScript**, **jQuery** CSS in WordPress.

**Lyfflip**, Kolkata, India  
*Software Developer* Jul. 2016 – Jul. 2017

- Developed and consumed **Web Services** for extracting and manipulating data from inter-applications using **SOAP** and **REST** protocols.

**Larsen and Toubro Technology Services**, Mysore, India  
*Software Engineer* Oct. 2013 – June 2016

- Implemented **Web Services** for extracting and manipulating data from inter-applications using **Java Spring-REST** framework. Wrote **Junit test cases** brought **code-coverage** to 95+%.
- Mentored** a team of 3 and built a Tool Suite in **Asp .Net WPF** to test an **IOT** platform using multithreading
- Re-engineered existing Time-sheet portal for a client organisation with over 20,000+ employees. Analyzed and plotted graphical data using **Telerik** in **ASP .net C#** which improved productivity by more than 20%.

## PERSONAL PROJECTS

**Northeastern University**, Boston, MA

**FoodieWeb – ReactJS / Java Spring-Boot, SQL, REST API** Dec. 2018

- Facilitates a user to utilise external API to retrieve recipes and use internal API's to fetch their liked dishes.

**Course Management System – Mongo, Express, Angular, Node.js, REST API** Oct. 2018

- Created API's which professors can utilize to CRUD courses, modules, topics and widgets.

**Comparative Analysis of different Compression Algorithms – C, Shell Scripting, Tableau** Aug. 2018

- Implemented different algorithms (serialized / multithreaded) to compress and decompress
- Automated the process over different data sets and evaluated their performance.

**Ride Sharing Application – Python Django, JavaScript, jQuery, Sqlite** April 2018

- Designed and developed a responsive web application which would facilitate Northeastern students to search and offer rides. The portal also provides option to split the cost among the travellers.

**Search Engine Design – PHP, Python** Oct. 2017

- Built a search engine by building a web crawler, indexer with page rank algorithms.
- Employed BM25, TF-IDF, Smooth Query Likelihood Retrieval models and compared performance and retrieval effectiveness.

## TECHNICAL SKILLS

**Computer Languages:** MEAN Stack, ReactJS, React Native, Java, C#, Python, C, PHP, HTML5, JavaScript, CSS3  
**Frameworks:** Spring-Boot/ Hibernate, MVC, ASP .NET, WPF, J2EE, JPA, Django, Entity, Node.js  
**Servers & Database:** Heroku, IIS, Oracle 10g, MySQL, Microsoft Access, MongoDB  
**Software & Tools:** GitHub, Git, Jira, Visual Studio, AWS -EC2 /S3, Eclipse, Adobe Suite, Jmeter, Jenkins, Postman.  
**Certifications:** Microsoft Certified Professional, Microsoft Certified HTML5/CSS3/JavaScript Developer  
**Development Type:** Agile- Scrum, TDD (test driven development)