

# MALAVIKA KRISHNAN

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## EDUCATION

### NORTHEASTERN UNIVERSITY

Boston, MA, United States

*Master of Science (MS) in Data Analytics Engineering, GPA: 4.0/4.0*

(Expected) Dec 2022

- **Related Courses:** Data Modelling, Agile Software Development, Machine Learning, Operations Research, Product Management
- **Teaching Assistant** for the course OR6205 (Deterministic Operations and Research)

### SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING

Kerala, India

*Bachelor of Technology in Computer Science, GPA: 3.7/4.0*

Jul 2018

- **Related Courses:** Data Structures and Algorithms, Database Systems, Object-Oriented Programming, Operating Systems, System Design

## SKILLS

**Languages:** Java/JS, C++/C, Python

**Databases:** MSSQL, PostgreSQL, MongoDB

**Machine Learning:** scikit-learn, pandas, NumPy

**Operating System:** macOS, Windows, Android, Linux

**Web Tools:** HTML, CSS3, React

**Framework:** Git, Visual Studio Code, Eclipse, ELK Stack

## EXPERIENCE

### CHARLES RIVER DEVELOPMENT, STATE STREET

Burlington, MA, United States | Jan 2022 – Aug 2022

#### Product Development and Analytics Co-op

- Implemented methods to extract observability data points using open telemetric export functionality into Elastic Search, catering to a team of 80 in SaaS Operations to address performance issues with the help of Kibana dashboards
- Developed a prototype and created functional specification for NextGen Desktop interoperability through context passing between 4 trade related applications following FDC3 protocol to establish seamless order management
- Established a standard template for projects across the organization in **Jira**, integrated with Power BI to help product managers analyze the estimated time for a release task completion by reducing the planning time to **80%** otherwise done manually
- **Tools & Frameworks:** JavaScript, Azure, ELK Stack, Power BI, Visual Studio Code, SQL Server Reporting Services, Jira

### SUNTEC BUSINESS SOLUTIONS

Kerala, India | Aug 2018 – Dec 2020

#### Software Development Engineer

- Implemented a self-service web-app called 'Deal' for 3 clients to define accounts and price variations through **REST** API and batch processing for communicating with the product, mitigating the number of UAT issues per quarter by **60%**
- Modified a scalable back end, developed requirements for pricing and billing attributes through rule-based configurations inside the Transaction Processing Engine (TPE) of the product and ensured quality delivery with **100% FTR**
- Introduced automated testing for the first time on product functionalities, created libraries and engaged in support for daily **CI/CD** failures taking ownership for 5 test suites in the framework
- **Tools & Frameworks:** Apache Maven, Java, JavaScript, Selenium, SQL, Eclipse, GitHub, JBoss, Jenkins, Jira

## PROJECTS

### THE APPSTORE DATABASE

#### Full Stack Developer

Northeastern University | Fall'21

- Created a production ready relational database in MySQL with mappings from conceptual to relational data model and NoSQL database for storage of big data simulating real world Appstore environment
- Integrated the model with Flask web framework to develop a web application interface and deployed on Cloud using Heroku (PaaS)

### ONLINE SHOPPER'S PURCHASING INTENT

#### Machine Learning Developer

Northeastern University | Spring'21

- Implemented Machine Learning techniques to achieve an optimal model to predict a shopper's purchase probabilities after retrieving data from SQL database and visualized through Tableau
- Developed end-to-end deployment of the ML lifecycle in **Python** using hyperparameters, pipeline structures and redesigned it by fine tuning the model to improve accuracy level to **90.07%** (with XG-Boost trees)

### INDOOR NAVIGATION SYSTEM FOR FIREFIGHTERS

#### Java Developer

SCTCE, Feb 2018 – May 2018

- Designed and developed an indoor navigation mobile application in Java that helps Firefighters to navigate to desired buildings, with the location of the firefighter triangulated on a map using RFID tags.
- Incorporated techniques like Dijkstra's Algorithm to find the shortest path in the map along with the directions to the closest exit from current location.

## CERTIFICATIONS / LEADERSHIPS

Amazon Web Services (**AWS**) Cloud Practitioner Certified | Member of Computer Society of India

Mentor at AnitaB.org (Grace Hopper Celebrations) | Marketing at Graduate Women Coders (Northeastern University)