

AKSHAT RAMANATHAN

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SUMMARY

A Software Engineer interested in web development and the world of Cloud technologies. Awarded the title of Valedictorian in high school for the batch of 2017. Proficient in finding and resolving malfunctions, using technical and communication skills. Adept in basic computer concepts inclusive of Data Structures, Algorithms and OOP Languages. Effective communicator with excellent interpersonal skills, logical thinking, and analytical abilities.

SKILLS

Web Dev: JavaScript, ReactJS, Redux, SpringBoot, NodeJS, Express, jQuery, Bootstrap, PHP, JWT, Angular, HTML, CSS
Database: MySQL, PostgreSQL, MongoDB (NoSQL)
Technical: C++, Python, Java
Software Tools: Agile tools (Jira, Bitbucket), Git, Jenkins, Docker, SonarQube, Papyrus, JUnit, Jest, Selenium
Others: Bash, Linux, Windows, Mac, VSCode, NetBeans, Eclipse, etc

EXPERIENCE

Teaching Assistantship, Northeastern University., Toronto, ON *Jan 2023- April 2024*

- Accountable for 3 consecutive batches in organizing, creating and conducting lab courses and weekly Java programming session as per curriculum mandates for Java Swing GUI framework based applications with event-driven architecture and design patterns
- Responsible for grading student submissions and conducting mentorship sessions

Developer, Standard Chartered GBS Pvt. Ltd., Bangalore, INDIA *Aug 2021 - July 2022*

- Implemented a full stack application developed using SpringBoot backend for RESTful APIs creation and PostgreSQL database. Built an admin management dashboard frontend using React library, Redux and Redux-saga for global state and side effect management
- Designed a payments integration project for approval, viewing and creation of transactions using Telegraphic Transfer methodology using MaterialUI design system with NodeJS backend for payment based REST APIs
- Collaborated with UX/UI designers to translate design mockups and wireframes into responsive and accessible React components library
- Analyzed and contributed to UI/UX and unit testing for Corporate Banking Client Due Diligence Application for client onboarding and document verification. Upgraded role to UI/UX developer

Machine Learning Intern, HirePro, Bangalore, INDIA *June 2019 – July 2019*

- Evaluated metrics on basic clustering and classification of data, designed algorithms for prediction of data, inclusive of linear, logistical regression
- Implemented algorithms on classic datasets for training and testing of data for classification and clustering techniques

EDUCATION

Northeastern University, Toronto, ON

Master of Science in Information Systems

April 2024

Courses: Software QA and testing, Backend tools and methodologies, Frontend Design and UX analysis

SRM University, Chennai, INDIA

Bachelor of Technology, Computer Science & Engineering

May 2021

Courses: Software Development, OO Design and Analysis, Data Structures and Algorithms, Web Design and Development

PROJECTS

Northeastern University, Toronto, ON

Shipment Quotation & Recommendation Aggregator

Mar 2022

- Executed multiple SpringBoot MVC architecture backends with JWT for horizontal scaling and designed an aggregator model for shipment based on data points (distance path, mode of transport)
- Designed a shortest path-of-nodes algorithm to calculate multiple recommendations, and quotation estimation of shipments, based on mode of transport
- Implemented Angular front-end design for multiple CMS and aggregator models

SRM University, Chennai, INDIA

Music Genre Classification using Machine Learning Techniques

Mar 2021

- Conducted a comparative study of 4 Machine Learning algorithms and a hybrid model to improve efficiency and performance
- Reached 70% accuracy, improved model as compared to existing surveys and limited resources. Performed analysis and prediction of music genre using Fast Fourier Transform for digital signal processing, feature extraction
- Designed SVM model with highest efficiency and generated as endpoint for end user applications