
EMPLOYMENT

Senior Software Engineer	HSBC Technology	Sept 2020 – Aug 2022
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HSBCnet

- Worked as Full-Stack Engineer in Information Services team, which deals with building RESTful microservices for secure customer information access. My responsibilities include...
 1. Building **RESTful Microservices** based on **MuleSoft** and **Spring-Boot** with robust JUnits using **Java**.
 2. Deploying to Pivotal Cloud Foundry using Jenkins continuous integration pipelines.
 3. Executing performance of system APIs using JMeter. Configuring server specific settings and scaling of live applications.
 4. Live monitoring and firefighting issues using AppDynamics and Splunk.

EStatements for Canada.

- Collaborated with architecture and content management teams to design eStatements flows at backend systems.
- Led a team of 3 and developed API and File transfer Service flows based on above designs and implemented eStatements view and download features to Canadian users.

Account Information PDF for global wallet users.

- Discussed with business to design workflows to render account information PDF documents for global wallet users.
- Collaborated with front-end teams to develop customer data-flow designs and implemented PDF rendering workflow using opensource iText for 10,000 quantum users to download PDF of their account information.

eStatements generation using JReport

- Collaborated with Information Services teams to design XSD schemas of customer information and designed eStatement PDF layouts on JReport Designer using above designs.
- Developed Java servlets to fetch and translate the customer xml data and configured JReport server to generate PDF documents of eStatements, enabling HSBCnet users to view and download eStatements in their local languages.

Embedded Software Intern	NVIDIA Graphics	Jan 2020 – Feb 2020
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Tegra Soc

- Developed Benchmarking tool to visualize and compare performance of different open-source memory management libraries OpenGL , OpenCL on Tegra Soc to facilitate opensource migration. C++, Python, Operating Systems.
- Gained knowledge on technologies RRT (real time ray tracing), AR (augmented reality), G-force-Now (an online game streaming platform), 8K gaming, Speech-recognition, Self-Driving training VR and more.

EDUCATION

Allahabad, UP	IIIT Allahabad	JUN 2020 – AUG 2020
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- Integrated dual degree with BTech in Information Technology and MTech in Software Engineering.
Thesis: Class Imbalance in Medical Datasets (A Machine-learning research under Dr Ranjana Vyas).
- Coursework: Software Requirement Engineering; Computer Architecture; Algorithms; Artificial Intelligence; Wireless Networks; Optimization techniques, Operating Systems; Databases; Algorithms; Principles of Programming Languages; Calculus III, Discrete Mathematics.

ACHIEVEMENTS

- **FIRST, Prize HSBC Hackathon.**

- ❖ **Secured 1st Prize** for the automation solution proposed to Gifting team for data-integrity tests. Reduced **human efforts by 90%**.

- **State and National Level Tests.**

- ❖ **Secured 1st rank** in SLTSE, State level talent search out of **1,00,000** participants.
- ❖ **Selected for 2nd level** for NLSTSC, National level talent search out of **10,00,000** participants.
- ❖ **Secured in top 5 percentile** in national tests like JEE mains (7000), JEE Advanced (5000) out of **7,00,000** participants.
- ❖ **Secured 275th Rank** in TSEAMCET and **715th rank** in APEAMCET out of **2,00,000** participants.
- ❖ **Secured 23rd Rank** in IMMO state level Mathematical Olympiad

- **FIRST, Prize Sports.**

- ❖ **Secured 1st Position** in Badminton for 2 consecutive years at IITA tournaments.
- ❖ **Secured 2nd in** Yoga held at Asmita Inter IIIT tournaments.

PROJECTS

- **Class-imbalance in Medical Datasets (2019-20).** *Under Dr Ranjana Vyas*
Conducted research on learning bias in neural nets caused due to imbalance in datasets. Increased classification scores from 0.73 to 0.78 on ICPAR breast cancer data.
- **Hand-written Character Recognition (2017-18).** *Under Prof. Pavan Chakraborty*
Implemented an Optical Character Recognition system to digitize handwritten characters. Python, TensorFlow, OpenCV and Multi-threading.
- **Forum (A social networking project) (2016-17).** *Under Dr Sonali Agarwal* ^[1]_{SEP} Implemented a network platform for university students post, share, and react to course materials. PHP, MySQL, JavaScript, HTML/CSS.

POSITION OF RESPONSIBILITY

- **Teaching Assistant**

Worked as Teaching Assistant for the course object-oriented design using Java under Dr Sonali Agarwal. Automated the code quality checks for effective evaluation of submissions. And also involved in designing and Evaluation of assignments of students.

SKILLS

- **Languages:** Java, Python, JavaScript.
- **Frameworks:** Mule-Soft, Java Spring Boot, React.
- **Cloud:** Pivotal Coud Foundry, Jenkins, AppDynamics, Splunk.
- **Mascellinos:** Object Oriented Design, Data Structures and Algorithms, Analytical Problem Solving, Machine Learning, Unit Testing, Agile Methodologies, Code Review, Documentation, Presentation and Training.