RUPASMITA DEVI

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ACADEMIC PROFILE

Completed **Bachelor of Engineering (Hons.) in Computer Science** from Birla Institute of Technology and Science (BITS), Pilani, with **CGPA**: 7.6—**2014–2018**

PROFESSIONAL EXPERIENCE

Graduate Software Developer Engineer—Tesco, Bengaluru—July 2018–Present
- Developing backend for Grocery Home Shopping website to serve Tesco's entire online grocery business
- Wrote critical functionalities for Mobile Microsite to save Tesco in excess of £8M annually
- Implemented RBAC (Role-Based-Access-Control) authorization process for services
- Worked in Mobile Microsite's entire integration testing with consumers and downstream services, both in PPE and production
- Created a Test Framework using Junit5 to test our APIs in a unified fashion
- Developed detailed monitoring dashboards and alerts for services on Splunk
- Worked on Real Time Sales Feed Service to help gather insightful view on the customer trends in peak hours.
- Enriched CI pipelines with features such as change-logs, plugins integrations (PMD, findbug, checkstyle), alerts, etc.

PROJECTS UNDERTAKEN

Title: Modelling Customer and Product Profiles for Quick and Better Recommendations—Tesco—June–July 2019
- Objective: To build a recommendation system that models customer and product profiles
- Team Size: 3
- Role: Used Neo4j to model recommendation system and implemented collaborative filtering and Market-Based Analysis; Created Customer-Transaction Graph and Basket-Basket Graph out of data to extract profiles; Presented results through a UI with REST APIs that internally connect to Neo4j database for querying; Developed the model in a dataset with 60 customers, over 17000 products, and 5500 orders
- Tools: Neo4j, Python, Cypher (Query Language)

Title: **Test Framework—Tesco—November 2018–January 2019**
- Objective: To create a Test Framework to test the APIs in a unified fashion
- Team Size: 1
- Role: Created a test framework to test the APIs in a unified fashion across all deployment environments and business channels to ease out the development process.
- Tools Used: Spring, Junit5, Embedded Kafka

Title: **Intrusion Detection System (IDS)—CSIR-CEERI, Pilani—March–April 2018**
- Objective: To create the model an Intrusion Detection System (IDS) using deep learning at CSIR-Central Electronics Engineering Research Institute (CEERI), Pilani
- Team Size: 1
- Role: Literature review of research papers on IDS using deep learning, implemented the LSTM network to address a demonstration of time-series prediction for intrusion detection; Awarded A-grade for the project
- Tools Used: Python, Keras Python Library

Title: **Packet Sniffer—BITS, Pilani—February–April 2017**
- Objective: To create a simple packet capturing tool
- Team Size: 3
- Role: Designed and implemented a simple packet-capturing and analysis tool to capture application, transport, network, and data link level structured PDUs; used <netinet/tcp.h> library to capture TCP headers of packet
- Tools Used: C

Title: **Classification of EEG Signals—CSIR-CEERI, Pilani—August–November 2016**
- Objective: To perform feature extraction and classification of real-time EEG signals
- Team Size: 1
- Role: Implemented algorithms like, PCA, CAR Method, Band Pass Filters, and Common Spatial Filters on the EEG signal dataset for feature extraction; used Artificial Neural Network on the pre-processed data for classification; Awarded A-grade for the project

- Tools Used: Python, NumPy, SciPy Library

INTERNSHIPS

Software Intern—PayPal India Development Centre, Chennai—July–December 2017
- Worked on the backend implementation of PayPal Packing Slip and created the UI released in August 2017
- Fixed various live bugs in PayPal Packing Slip
- Created a shipping customer assistance portal to help customers with details on Paypal's postage services
- Used React.js for rendering the pages, also used jQuery, webpack, grunt and babel in order to deliver the project
- Got accepted to be pushed into Paypal's live environment

Software Intern—Grasim Industries, Madhya Pradesh—May–July 2016
- Created an online platform to maintain employee records and manage transaction between employee and office
- Incorporated online services like conveyance booking and availing medical allowances in system for easy access
- Used PHP and MySQL for backend, and HTML-5 and CSS-3 for frontend
- Got accepted to be merged with existing internal portal of the company

COURSEWORK AND CERTIFICATIONS

- Received a certificate on 'Improving Deep Neural Networks: Hyper Parameter Tuning, Regularization and Optimization' from Coursera—**June 2019**
- Completed a certificate on 'Neural Networks and Deep Learning' from Coursera—**April 2019**

SEMINARS AND WORKSHOPS ATTENDED

- Attended workshops on Application Security, Performance and Scalability conducted by Tesco as part of IGNITE 2019 held at Tesco, Bengaluru—**June 2019**
- Underwent a seminar on Kubernetes and Micro services conducted by Great International Developer Summit held at IISC, Bengaluru—**April 2019**

TECHNICAL SKILLS

- **Programming Languages**: C, Java, Python, SQL, OpenGL, HTML5, CSS3, PHP, Cypher (Query Language)
- **Technologies**: Spring, AWS, Kubernetes, Project Reactor, Docker, Kafka, Couchbase, Redis, Istio, Apigee, Splunk (SPL)
- **Application Software**: Adobe Photoshop, Adobe After Effects, Illustrator, Neo4j
- **Operating Systems**: Ubuntu, Windows

AWARDS AND ACHIEVEMENTS

- Secured the third prize for India Edition of annual Tesco Global Hackathon conducted across all colleagues and suppliers from all over the globe at Tesco, Bengaluru—**June 2019**
- Won the Zonal Round of Design and Animation during Robothlon-2015 conducted by Robosapiens Technologies Private Limited held at BITS, Pilani—**March 2015**

EXTRACURRICULAR ACTIVITIES

- Served as the Cultural Secretary of Maurya Vihar, a regional association at BITS Pilani of around 100 members—**July 2016–May 2017**
- Acted as a core member of Association of Computing Machinery (ACM), BITS Pilani Chapter—**August 2015–May 2016**
- Volunteered for an NGO, 'Nirmaan', BITS Pilani Chapter, aimed at providing free tuitions to underprivileged kids—**August 2014–May 2016**