

Anand Bhat

Software Engineer

Master's student at Paderborn University and currently employed as a Software Engineer Intern at pm2am GmbH, Germany. 2.5+ years of experience specializing in web application development in Java frameworks. Always enjoyed taking challenges and learning new technologies.



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WORK EXPERIENCE

Software Engineer Intern pm2am GmbH & Co. KG

07/2016 – Present

Wuppertal, Germany

Responsible for working on different aspects of a booking system, designing system functionalities and interacting on a daily basis with end users, back-end developers and marketers

- Redesigned, implemented and maintaining the system front-end and back-end functionality.
- Designed and developed Content Management System for back-end business functions.
- Worked closely with UI designing team and contributed to the appealing look and feel of the website.
- Successfully identified and fixed several system bugs like SQL injection, clickjacking.
- Experienced in system testing and performed JUnit tests
- Providing technical support to the end users.
- Query level tuning of database.
- Plesk administration, Deployments, SSL configuration.
- Currently working on data analysis which aims at helping in several important marketing and business decisions.
- Design and implementation of Aventourica(Booking Engine for the German market)

Master's Thesis: Supervised Machine learning Approach for CPAChecker Configuration Selection

Paderborn University

01/2019 – Present

Paderborn, Germany

The thesis aims at selecting the best and effective configuration of a verification tool called CPAChecker using supervised machine learning techniques

- The thesis is also interested in analyzing the importance of configuration features and its contribution in learning.
- The thesis problem in general can be considered as an algorithm selection problem. ML model takes concatenated feature vector representation of C programs and tool configurations and predicts the best configuration based on correctness and efficiency.
- Uniqueness of the work is considering features of algorithms along with the tool features. This helps in exploring relationship between tools and algorithm features and in turn improves learning accuracy.
- Data generation: data of verification results of CPAChecker is generated for learning.
- Designed and implemented a pipeline from scratch for data processing, visualizing and training.
- Random forest classifier and gradient boosting classifiers are used as learning algorithms.

EDUCATION

M.Sc in Computer Science Paderborn University

10/2015 – Present

Paderborn, Germany

Bachelor of Engineering Visvesvaraya Technological University

06/2010 – 06/2014

Belgaum, India

TECHNICAL SKILLS

Languages

Java, Python, SQL, JavaScript, HTML

Technologies

Hibernate, Struts2, Spring Boot, Spring MVC, JUnit, MYSQL

Platform

Windows, Linux

Source Control & CI

Git, SVN, Maven, Travis

IDE

Eclipse, PyCharm, IntelliJ

STRENGTHS

Application Software Development

Web application development

Agile & DevOps

Machine Learning

Data visualization

SOFT SKILLS

Communication

Analytical

PERSONAL PROJECTS

Ranking CPAChecker configurations using Dyad technique

- Ranking the CPAChecker (configurable verification tool) configurations according to its correctness and performance in terms of run time using Supervised learning.
- Data set is generated by running verification tasks on CPAChecker in different configurations.
- Idea of ranking the configurations is realized using Dyad technique. Dyad is implemented in two methods namely Bilinear-PL(based on Plackett-Luce model) and PLNet (based on Neural Network)
- The project was also focused on recommending new configurations which were not seen in the training phase.

WORK EXPERIENCE

Master's Project: Florentina Paderborn University

06/2016 – 06/2017

Germany

The Florentina project was inspired by an EU-Project Florarobotica. The project's objective was to develop and investigate symbiotic relationships between natural plants and swarms of robots

- The general goal was to provide a collective distributed control of the robots.
- Implementation of interfaces for several sensors like light, orientation sensor with Raspberry pi.
- Implementation of CAN bus communication between the controllers.
- Designing and 3D printing of cases and docking mechanism for controllers.
- Assisted in designing and implementation of a local algorithm to obtain the global overview of the structure and self-repair in case of damage.

LANGUAGES

English

Full Professional Proficiency

German

Elementary Proficiency

Hindi

Full Professional Proficiency

Kannada

Native or Bilingual Proficiency

PERSONAL PROJECTS

AMES-CLOUD: Adaptive Mobile Video Streaming and Efficient Social Video Sharing (11/2013 – 05/2014)

- The project is developed for storing videos efficiently in the clouds by providing each mobile user (private user subVC) to offer “non-terminating” video streaming in 2G network.
- The project was developed in Java frameworks with MYSQL as database.

COURSES

Web Engineering

Model Checking

Designing code Analysis for large scale system

Software Quality Assurance

Advanced Computer Architecture

Machine Learning

CERTIFICATES

Spring Framework Master Class (09/2018 – 12/2018)

Udemy

Machine Learning A-Z Hands-On Python and R in Data Science (01/2018 – 04/2018)

Udemy