Ankit Pattanayak

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EDUCATION

California State University — Long Beach, California
Master of Science in Computer Science — GPA: 4.0/4.0 — May 2022

Kalinga Institute of Industrial Technology — Bhubaneshwar, India
Bachelor of Technology in Information Technology — GPA: 8.94/10.0 — Oct 2019

CORE SKILLS

- Programming Languages: Python, Java, C, C++
- Operating Systems: Linux, Windows, macOS, Android
- UI/UX Technologies: Ext JS
- Database Systems: MySQL, Hibernate
- Java Applications: Spring MVC, Spring Boot, Struts 2.0
- IDEs: Jupyter Notebook, IntelliJ, PyCharm, Android Studio, Visual Studio, Eclipse
- VCS and CI/CD: Git, Jenkins
- Project Management tools: Jira, Confluence

WORK EXPERIENCE

High Radius Technologies — Hyderabad, India
Software Engineer(Full Stack Developer), Product Development — July 2018−Jan 2021

- Developed web applications using **Sencha Ext JS, Spring MVC, Struts 2.0** and **Hibernate**.
- Automated web-scraping of data using **HTTP POST** and **Selenium** and its aggregation into **MySQL** database.
- Automated image capture(OCR) process by integrating ABBYY FineReader with manual data-capture process.
- Collaborated with cross-platform teams to migrate hibernate, ItextPDF, Snowtide dependencies.
- Developed common email framework to automate reports and critical alerts.
- Managed playbooks for our product and handled on-boarding of new employees.
- Was interim scrum master.

National Institute of Technology — Rourkela, India
Research Intern under Dr. Bibhudatta Sahoo, Professor of Computer Science — April−May 2018

- Proposed a multi-constraint scheduling algorithm(MCSA) for real-time tasks in virtualized cloud environment.
- MCSA uses a scoring value to choose the appropriate VM for a task.
- Analyzed the proposed MCSA algorithm through extensive simulations and experiments to show the effectiveness of MCSA over some existing schemes

PROJECTS

Diabetes Predictor(Python, Jupyter Notebook) - github/DiabetesPredictor

- DiabetesPredictor is an ANN model built using sklearn library in Python to analyse the data and predict the outcome.
- Used GridSearchCV for parameter optimization.
- Achieved precision of 81.25% and accuracy of 84.42%

Docker Simplified(Python, Docker-desktop, Visual Studio) - github/DockerSimplified

- A simple UI-based approach to automating all Docker operations for any end-user.
- Built using Python 3.5 with libraries - subprocess, os, tabulate, re, and termcolor.

Software Engineering Metrics Suite(Python, PyQT5, PyCharm) - github/MetricsSuite

- Executable software for Windows/Linux/MacOS with simple user interface.
- Built using Python 3.5 with PyQT5.
- Implemented evaluation of software engineering metrics: Use case points, Function points and Software Maturity Index.
- Supports basic functionalities of creating new session/project, load and save operations.

SafeDrive (Java, XML, Gradle, Android Studio) - github/SafeDrive

- Developed android application that won 3rd prize in Smart India Hackathon-2018 edition with prize-money of 50k INR
- Implemented DND service, hands-free mode, offline speed tracking and SOS messaging for safety of drivers.
- Implemented accident detection mechanism to identify accidents in real-time.

PUBLICATIONS

S. Sahoo, **A. Pattanayak**, K. S. Sahoo, B. Sahoo and A. K. Turuk, "MCSA: A Multi-constraint Scheduling Algorithm for Real-time Task in Virtualized Cloud" in 15th IEEE India Council International Conference (INDICON), Coimbatore, India, 2018, pp. 1-6, doi: 10.1109/INDICON45594.2018.8987045.