J A Paul

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Experience

Software Engineer
Oct 2018 – Present

Alcodex Technologies   *Ernakulam, Kerala*

- Developed full Stack web application implementing RESTful API's and OWASP recommended security features for Cloud based Web Server with the backend in **Node.js** and **Angular** for frontend
- **Session Management** - Authentication, authorization, LDAP
- Implemented **Load Balancing** in servers to increase the availability.
- Performed **Predictive maintenance** and designed localized **weather forecasting models**.
- Pipeline leakage analysis system - **Developed a modelling software** to identify leakage in oil and water pipelines.
- Pollutant Dispersion analysis system - developed a **pollutant dispersion modelling software integrating calpuff and AERMOD** and other modelling solutions.
- Worked on **Sharding** and **Replication** for **MongoDB**
- System Recovery and Debugging - Responsible for real time recovery after system failure.
- **On-site experience with clients at Kuala Lumpur**. Managing projects from P.O.C to deployment.

Education

Birla Institute of Technology and Science
Pilani, India

Bachelor of Engineering in Manufacturing;   *Aug. 2013 – July. 2017*

Macquarie University
Sydney, Australia

Juris Doctor;   *Aug. 2017 – Jun. 2018*

Projects

Antman | *Python, Selenium,Flask, MongoDB*   Apr. 2019 – Present

- Developed an inhouse python app for api and load testing, to minimize testing time to facilitate rapid deployment.
- Functionalities included API testing, integration, smoke testing, performance, load testing.
- Used selenium to mock user actions. Used Requests library to send requests and analyze responses. Data visualization of test results.
- Concurrent users mocked using multi-threading.

Multi-criterion Decision Making | *Python,Git*   Apr. 2014 – Jun. 2014

- Developed a framework to identify the most optimal solution for a problem statement with given constraints.
- The framework selected an alternative by its performance in multiple criteria using an ensemble of MCDA algorithms.

Technical Skills

Languages: Python, JavaScript, C/C++, Java
Frameworks: React, Node.js, Flask, Selenium, MongoDB, Angular, Jest
Developer Tools: Git, Docker, Jenkins,DigitalOcean, GCP,ELK
Libraries: pandas, NumPy, Matplotlib, tensorflow, keras, pyTorch