Payas P Relekar

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Summary

- Payas Relekar is an Associate Software Engineer at ACI Worldwide, Inc in Pune, India. He is an experienced software developer with 1.8+ years of experience and Masters in Digital Systems from Savitribai Phule Pune University. Versatile interests and experience include multiple domains and technology stacks.
- Experienced developing solutions for eCommerce Payments, natural langugage processing, embedded electronics, system administration and more. Professional and academic experience utilizing various technologies including Java, Python, embedded electronics development, platforms like Linux and NixOS, tools like Git, Gerrit, Github, various GNU utilities.
- Demostrated quick adaptability working across multiple domains and platforms, development as well as research, team oriented as well as independent work capability.

Work Experience

ACI WorldWide, Inc Jul 2019 - Till Date

Project: *PAY.ON Payments Gateway*
Role: *Product Development*
Designation: *Associate Software Engineer*

- PAY.ON offers a white-label payment structure for omni-channel transaction processing through one payment platform: eCommerce, mCommerce and mobile point-of-sale. The payment platform is fully PCI-certified, and meets the highest technology and security standards.
- Development experience in PAY.ON includes platform maintenance, mandate implementations, and end-to-end feature development across multiple modules. Further experince includes support resolution, platform monitoring and ensuring stablility across the stack. Acquired strong understanding of development process, tooling and infrastructure.
- Exposure to multiple payments APIs across different payment acquirers, and data transformation for each. Domain level understanding and integration experice in eCommerce payments industry.
- Agile (Scrum and Kanban) development experience in multiple teams on separate platform modules, inclusing APIs, configuration, business logic, platform security and front-end.
- Technologies: Java/Spring, Spring Web MVC, PostgreSQL, Debian/Linux, Git/Gerrit

ACI Worldwide, Inc Jan 2019 - Jun 2019

Project: *Universal Payments Framework and Universal Online Banker*
Role: *Product Development*
Designation: *Intern*

- Universal Payments Framework (UPF) provides purpose-built payments functionality to orchestrate all aspects of payments processing for any payment type, any channel, any currency and any network.
- Developed and maintained interfaces between various payments APIs, with differing protocols such as SOAP, ReST, ISO 8583, APACS etc. Acquired understanding of payments domain and API implementations.
- Implemented and extended internal test framework to interface with UPF, to allow automated test execution with simple Excel test generation. Implemented automatic test-case generation to ease on-boarding QA staff.
- Technologies: Java, XML, Subversion, Bash

Skills

Programming Languages	Java, Bash, Python, Nix
Platforms	Linux, NixOS, Windows
Tools	Git, Awk, Sed, Grep
Libraries/Frameworks	Spring, Pytorch, Numpy, Pandas

Academic Projects

Sarcasm Detection using Machine Learning Jan 2019 - Jun-2019
Python, Pytorch, SpaCy, sklearn, Pandas, Numpy

- Detect sarcasm in textual communication by understanding content as well as context of the particular comment as well as past record of the person making the comment to include known sarcastic comments.
- Reddit comment database was cleaned and analyzed to generate profile for authors for their propensity to be sarcastic. Multiple paramters were used to determine whether a comment can be sarcastic or not, including, but not limited to specific words being used, comment popularity, topic of discussion, sentiment analysis etc.
- Python was used as primary development language for mature Machine Learning echosystem, for data cleaning, model construction, training and evaluation. Bash and other GNU tools were used for preliminary data analysis and cleaning.

Magnetic Levitation using Real-time PID Jan 2016 - Jun 2016
C, Arduino

- A single controlled electromagnet is used to suspend ferromagnetic object at fixed position. The control mechanism implements PID (Proportional-Integral-Derivative) algorithm to asses object location and velocity to adapt magnetic field strength in real time for indefinite suspension of ferromagnetic object.
- Minimal power, hardware, software and configuration requirements. Modular architecture and scalable design with multiple possible applications.

Publications

Survey of Machine Learning for Sarcasm Detection Jul 2019
International Journal of Engineering, Research and Technology

Magnetic Levitation using Real-Time PID Mar 2019
National Conference for Students in Electrical and Electronics Engineering, VIIT

Certifications

SCTS NextGen Expert Java SEED Infotech, Pune
Technologies: Java, Javascript, HTML

Embedded Technologies ATS Infotech, Pune
Technologies: Embedded C, Linux, Assembly

Education

Master of Engineering (Electronics) in Digital Systems Pune University	*8.48*
Bachelor of Engineering in Electronics & Telecommunications Pune University	*62.5 %*
HSC Maharashtra State Board	*59.17%*
SSC Maharashtra State Board	*93.07 %*