# PAYAS P RELEKAR

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## $\operatorname{Summary}$

- 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.
- Versatile experience in developing solutions for eCommerce Payments, Natural Language Processing, Embedded Electronics, system administration and more.
- Professional and academic experience developing in various technologies including Java, Python, Bash, embedded electronics development, over platforms including Linux and NixOS, utilizing tools including Git, Gerrit, Github, various GNU utilities.
- Experience in architectural assessment, identifying and defining technical scope, development and migration of new APIs to match latest mandates and customer requirements.
- Demostrated quick adaptability working across multiple domains and platforms, development as well as research, team oriented as well as independent work capability.

#### Skills

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

## 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 stability 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

#### ACADEMIC PROJECTS

## Sarcasm Detection using Machine Learning

Python, Pytorch, SpaCy, sklearn, Pandas, Numpy

Jan 2019 - Jun-2019

- 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 %