

# PAYAS P RELEKAR

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## SUMMARY

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- 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.
- Demonstrated quick adaptability working across multiple domains and platforms, development as well as research, team oriented as well as independent work capability.

## SKILLS

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

## WORK EXPERIENCE

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### 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 experience 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 experience in eCommerce payments industry.
- Agile (Scrum and Kanban) development experience in multiple teams on separate platform modules, including 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, SVN, Bash

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## ACADEMIC PROJECTS

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### 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 parameters 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 ecosystem, 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 assess 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.

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## PUBLICATIONS

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### Survey of Machine Learning for Sarcasm Detection

Jul 2019

*International Journal of Engineering, Research and Technology*

### Magnetic Levitation using Real-Time PID

Mar 2016

*National Conference for Students in Electrical and Electronics Engineering, VIIT*

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## CERTIFICATIONS

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### SCTS NextGen Expert Java

SEED Infotech, Pune

Technologies: Java, Javascript, HTML

### Embedded Technologies

ATS Infotech, Pune

Technologies: Embedded C, Linux, Assembly

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## EDUCATION

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