# Payas P Relekar

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## Summary

- Payas Relekar is a Software Engineer at ACI Worldwide, Inc in Pune, India. He is an experienced software developer with 4+ years of experience and Masters in Digital Systems from Savitribai Phule Pune University. His 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.

- 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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|---|---|
| **Languages/Technologies** | Java, Bash, Python, Emacs, Nix, Docker |
| **Platforms** | Linux, NixOS, Windows, AWS (EC2) |
| **Databases** | PostgreSQL, SQLite |
| **Tools** | Git, Grep/Regex, Awk, Sed |
| **Libraries/Frameworks** | Spring, Hibernate, TestNG, PyTorch, Pandas |

## Work Experience

### ACI Worldwide, Inc

| | | |
|---|---|---|
| Project | : *ACI Secure eCommerce* | |
| Role | : *Software Engineer (Product Development)* | Jan 2022 - Till Date |
| Role | : *Associate Software Engineer (Product Development)* | Jul 2019 - Dec 2021 |

- ACI Secure eCommerce (formerly PAY.ON Payments Gateway/Payments Orchestration Platform) 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 includes end-to-end feature development across multiple modules and microservices, mandate implementations across multiple connectors and APIs.

- Further experience includes incident resolution, platform monitoring and ensuring stability across the stack. Acquired strong understanding of development process, tooling, infrastructure and domain expertise.

- Ownership for customer facing whitelabel service with System administration and Service Reliability responsibilities.

- Agile (Scrum and Kanban) development experience in multiple teams on separate platform modules, including APIs, configuration, business logic, platform security and front-end.

- Received multiple accolades for customer-centricity and integrity.

- **Technologies**: Java, Spring/Spring Boot, Hibernate, PostgreSQL, Linux, Git, AWS (EC2), Docker

### ACI Worldwide, Inc

| | | |
|---|---|---|
| Project | : *Universal Payments Framework, Universal Online Banker* | |
| Role | : *Intern (Product Development)* | Jan 2019 - Jun 2019 |

- 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, SOAP, REST, Subversion, Bash, Git

## Open Source Contributions

### NixOS/Nixpkgs
*Nix, Bash, Python, Go, Rust*

Jan 2021 - Till Date

- Nixpkgs is a collection of 80000+ packages and one of the most active projects on GitHub. It also describes possible configuration for a complete Linux distribution using above packages.

- Contributions include new and ongoing maintenance of multiple packages, implemented in different languages.

### GNU Emacs
*Emacs-Lisp, C, TexInfo*

Sep 2022 - Till Date

- GNU Emacs is an extensible, customizable and free/libre text editor built on top of Lisp dialect evaluator.

- Contributions include new Elisp packages and development tooling.

### Doom Emacs
*Emacs-Lisp*

Jan 2022 - Till Date

- Doom Emacs is a configuration framework for GNU Emacs focused on performance, extensibility and ease of use.

- Contributions include bug fixes, testing and user support.

## 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.

### Magnetic Levitation using Real-time PID
*C, Arduino*

Jan 2016 - Jun 2016

- 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.

## Publications

### Survey of Machine Learning for Sarcasm Detection
*International Journal of Engineering, Research and Technology*

2019

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

2016

## Certifications

### SCTS NextGen Expert Java
Technologies: Java, Javascript, HTML

SEED Infotech, Pune

### Embedded Technologies
Technologies: Embedded C, Linux, Assembly

ATS Infotech, Pune

## Education

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|---|---|
| **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 %* |