

# KAUSTAV CHANDA

Senior Software Engineer

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## Experience

### Hyland Software

Oct 2024 – Present

*Developer 2, Content Federation Services*

*Kolkata, West Bengal*

- Developed a **highly scalable WebSocket broker application** to federate **information exchange** across multiple on-prem content management systems, leveraging a **plugin-based architecture** for seamless integration and extensibility.
- Developed a test harness for the above application, as a proxy for **Amazon API Gateway** reducing endpoint validation time by **40%**, enabling faster debugging and integration testing.
- Refactored a major portion of the **broker WebSocket application**, improving **code maintainability** and scalability using **Factory, Adapter, and Dependency Injection** design patterns.
- Implemented unit tests covering **100% of critical business logic** and achieving **>85% overall test coverage**, enhancing system reliability and reducing production bugs by **30%**.
- Designed and implemented a **Proof of Concept (PoC)** for **streaming large files (>20GB)** between **AWS S3 and on-prem servers**, achieving **seamless content federation** with a **20% improvement in transfer efficiency**.
- Automated **CI/CD pipelines** using **GitHub Actions**, improving deployment frequency by **3x**, integrating **SonarCloud scanning**, automated tests, and deployments to **sandbox and staging environments**.

### Hyland Software

Feb 2022 – Sep 2024

*Developer 2, Onbase Engineering*

*Kolkata, West Bengal*

- Developed **PDF Support** feature for legacy web based OnBase viewer bringing native PDF functionalities such as **text-selection, copying text, hyperlink support, bookmark support** generating **3000+ customer interest points** in Hyland Community.
- Modernized development workflow for legacy web application by using **Typescript** and **Webpack** tooling promoting **test-driven-development** approach.
- Containerized legacy web application and automated the process of creating **Docker images** from latest nightly build and continuous deployment using **Jenkins** reducing build set up time by around **75%**.
- Utilized **Jenkins** and **Vagrant** to provide a continuous integration service in order to automate the entire process of provisioning a virtual machine, installing the latest nightly build and test files, running the tests, generating a report of the results and cleaning up the resources once per day.
- Resolved over **30 accessibility defects** following **WCAG Conformance** guidelines diverse audiences achieving accessibility backlog reduction by **13%**.

### Hyland Software

Aug 2020 – Jan 2022

*Developer 1, Onbase Engineering*

*Kolkata, West Bengal*

- Contributed to the development of Hyland's modern **Angular** platform for **OnBase**, creating shareable components supporting text selection, text search, bookmarking capabilities integrated using **GraphQL** and **REST** endpoints.
- Developed full fledged pre-import **web-viewer** module for showing preview of documents, supporting page manipulation operations such as **rotate, reorder, delete** before importing to OnBase.
- Integrated **native desktop functionalities** such as **scanning** and printing through **virtual print driver** in web application enabling capturing documents using the above.
- Wrote **UI automation** and **Unit tests** using **Protractor, Jest, Selenium** and increased **code coverage** to impressive **73%**.

## Technical Skills

**Languages:** C#, HTML/CSS, Typescript, JavaScript, SQL

**Developer Tools:** VS Code, Visual Studio, IntelliJ, Git, TFS

**Technologies/Frameworks:** .NET, Linux, Jenkins, Docker, Webpack, Github Actions

## Education

### Heritage Institute of Technology (DGPA - 8.95)

July 2016 – May 2020

*Bachelor of Technology in Computer Science and Engineering*

*Kolkata, West Bengal*

## Achievements

- Won the Hyland SPOT award 2021, 2023.
- NASA Space Apps Challenge 2017 Finalist.
- School Topper in Mathematics