# Biswasindhu Mandal

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Completed graduation in Mathematics, master in Computer Science in Application and have 4+ years of experience in Frontend, Backend, and OTT Web technologies.
Specialized in JavaScript, Typescript, Node JS, Express, Mongo, MySQL, Media Player Libraries (DASH, HLS, Bitmovin), and Angular2 Framework.

## Skills

- Domain: JavaScript, Node JS
- Skilled in Programming Languages: HTML, CSS, Bootstrap, JavaScript (es5, es6), Node.js, Angular2
- Operating System: Windows, Mac OS, Linux
- Known Programming Language and Database: C, Python, Java, C++, MongoDB, MySql, OracleDB

- Ability to work under pressure and positive attitude.
- Ability to adapt to any environment.
- Analytical thinking and ability to synthesize.
- Ability to work in Multiple Teams & maintenance a parrel work according to requirements.
- Have experience working with multiple customers.

## Experience

### Engineer - Software / Rebaca Technologies, Kolkata

OCTOBER 2023 – PRESENT
**Client Project: MediaKind (Abot Automation)**

| ROLE | • Abot Automation Testing Framework test case writing |
|------|-------------------------------------------------------|
| Environment | • Cucumber, Selenium, Ecllipse<br>• Used WMC PayTV & DTC, MKPlayer SDK for automation testing.<br>• Web Browsers (Chrome, Edge, Safari, Firefox). |
| Methodologies | BDD |
| Tools | Ecllipse, VS Code, Git, Azure DevOps, Charles, NVM, Vysor |

- Start working on Selenium Cucumber based Automation framework and gain basic knowledge of Abot Automation Framework and Testing Interface related project.
- Write Automation Test Script using Cucumber for DTC, PayTV & MKPlayer-SDK Playback on browser.
- Learn Agent setup and Automation related azure pipeline setup, execution and report validation.
- Transfer OTT Payer related knowledge to Automation teams specially for Automation Framework end development and validation.
- Maintains daily & impressive workflow in short time.

APRIL 2023 – PRESENT
**Client Project: MediaKind (SME)**

| ROLE | • MediaFirst PayTV Media Player bug fixing<br>• SME Customer Service on multiple platforms player issue |
|------|--------------------------------------------------------------------------------------------------------|

| Environment | • Node JS, JavaScript, Typescript,<br>• Used WMC/UMC library depends on platforms<br>• Video Player on major Web Browsers (Chrome, Edge, Safari, Firefox), Chromecast (V2/V3), Android & iOS 1ft-2ft Device, AppleTV, Multiple Set top box. |
|---|---|
| Methodologies | Agile, TDD, BDD |
| Tools | VS Code, Git, Azure DevOps, Charles, NVM, FileZilla, WinSCP, Xcode |

- Resolving bugs in MediaFirst PayTV platform, mostly for player trick modes and smooth playing related issues for LIVE, VOD, CatchUp and Recorded & InProgress DVR assets.
- Widely handling player related issue for our internal environments and multiple clients' environments like CCX, SKT, TGN, VFQ, DTP, DTC, DU.
- Completely handling all type of Chromecast V2 playback related issue and all type of receiver end custom screen related changes (CC V2 & V3) for all MediaKind clients.
- Working on multiple platforms like 1ft-2ft Android & iOS device, AppleTV & Android 10ft device, to reproduce, deep analysis and supports on the clients' issues.
- Get chance to work with multiple teams at a time depends on customer issue and provided details analysis between customer and respective team.

**JULY 2022 – MARCH, 2023**
# Client Project: MediaKind (WMC)

| ROLE | • OTT SDK Player Development and bug fixing - Bitmovin<br>• PayTV & DTC SDK Player Development and bug fixing<br>• Chromecast-V3 Receiver bug fixing |
|---|---|
| Environment | • Node JS, JavaScript, Typescript<br>• Used Bitmovin player<br>• HTML5 Video in Web Browsers (Chrome, Edge, Safari, Firefox), Chromecast V2/V3 |
| Methodologies | Agile, TDD, BDD |
| Tools | VS Code, Git, Azure DevOps, Charles, NVM, FileZilla, WinSCP |

- Helped upgrade new react base WMC-SDK player Integration for DTC & PayTV SDK Library.
- Research & develop new features of player. Such as,
    Dynamic STS token upgradation
    Bitmovin Modular Player Integration
- Resolved bugs in the player to fixed Player trick modes and smooth playing on LIVE, VOD, Catch up and DVR assets.
- Get to chance worked on Chromecast V3 receiver development & bug fixing.
- Resolved Chromecast V2 related bugs and used Chromecast to cast media from WMC-SDK, UMC-SDK, MF PayTV 1ft-2ft App to Chromecast V2/V3 dongle & 10ft MediaFirst PayTV App.
- Understand MediaFirst HTML5 Pay TV platform player to fixed player issue on multiple environments like Android TV and browser.
- Get chance to handling server-side code deployment.
- Update unit test case to 1500+ and Mocha-Chai framework and successfully passed more than.

**JUNE, 2021 – JUNE 2022**
# Client Project: Stenograph (APEX)

| ROLE | • Design and development of APEX Web Application feature and bug fixing<br>• Design and development of APEX Admin Web Application feature and bug fixing |
|---|---|
| Environment | • Using UI framework Angular 10<br>• Node JS and Typescript<br>• Mostly used Chrome. Otherwise, we support Edge & Firefox also. |
| Methodologies | Agile, BDD |

| Tools | VS Code, Git, Azure DevOps, Visual Studio, MS SQL Server |
|-------|--------------------------------------------------|

- Worked as an intelligent ecosystem (APEX) that connects clients and agencies to reporters, videographers, translator and transcriptionists through Stenograph's industry-leading software, CATalyst. This empowers both parties to manage the workflow from a single application. Handling all aspects of a job, from scheduling to billing and everything in between.
- Worked on another ecosystem APEX-Admin that manages and processes all clients, agencies, reporters, videographers, transcriptionists and translators operations of APEX system. Handling billings and payments of all third-party members of clients.
- Expert knowledge in UI heuristics and principles, technical writing, business and user workflow, logical information organization, prototyping and use case scenarios.
- Resolve bugs in Web Application.
- Adding/improving new/existing features and functionality according to the customer requirements.
- Management discussions to figure out new requirement.
- Oversee and aid development activity of other developers.
- Extensive experience in UI web applications using HTML5, CSS, Bootstrap, JavaScript, Typescript, JSON, Angular, Regular Expression.
- Extensively worked on Developing SOAP and REST based Application.

**JULY 2019 – MAY, 2021**
## Client Project: MediaKind (WMC)

| ROLE | <ul><li>OTT SDK Player Development and bug fixing – DASH & HLS</li><li>WMC SDK Player Integration and bug fixing</li><li>Chromecast-V2 Sender/Receiver Development</li><li>OTT Media Player Unit Test Case Integration</li></ul> |
|------|------|
| Environment | <ul><li>Node JS and vanilla JavaScript</li><li>Used players such as DASH, Native HLS</li><li>HTML5 Video in Major Web Browsers (Chrome, IE & Edge, Safari, Firefox), Chromecast (casting from Web & Devices)</li></ul> |
| Methodologies | Agile, TDD, BDD |
| Tools | VS Code, Git, Azure DevOps, Charles, NVM, Jira |

- Helped create & upgrade a custom MediaKind WMC-SDK player.
- Research and develop new features of player. Such as,
  IHD - InHome Detection
  DAI - Dynamic Advertisement Insertion
- Integrated the third-party DASH player and maintaining the existing flow of our player.
- Resolved bugs in the player to fixed Player trick modes and smooth playing on LIVE, VOD & Recording media.
- Worked in UI development to cast media via Chromecast STB & dongle and successfully managed all player trick modes.
- The unit test case was written using Mocha-Chai framework and successfully passed more than 90% of the whole project with 1200+ test cases.
- Worked in various version control system – SVN, GIT, Azure DevOps.

# Internship & Project

**JAN 2019 – JUNE 2019**
## Internship / Rebaca Technologies, Kolkata
### Rebaca OAS (Office Automation System)

- Development of BE application to migrate employee data from MS-SQL to MongoDB using Vanilla JavaScript, Node JS, Express, MS-SQL and Mongo.

- Development of REST API base BE application to fetch employee data from MongoDB with different format using Vanilla JavaScript, Node JS, Express and Mongo.
- Development of FE application to show employee information in Web Browser in different aspects using Angular 8 framework with REST API.

**FUEL App Test Automation Framework Rebaca OAS**
- Rest API base Implementation for Web.
- Framework Test script integration & testing using Cucumber.js

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**JAN 2019 – MAY 2019**

## Project / Jadavpur University, Kolkata
### Analysis of Indian Rainfall Data for Future Prediction

This is a methodology for forecasting rainfall in all regions in India. Filter input data and apply ANN to forecast Future data using Python, MongoDB, NumPy, Matplotlib.

**NOV 2018 – DEC 2018**

## Project
### Online e-book Shopping Cart

JSP Servlet project for "Online e-book Shopping Cart".
Used Database (Oracle10g), Back-End (Java8, JSP), Front-End (HTML, CSS, JavaScript).

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# Education

## CSE / Jadavpur University, Kolkata, India
### Masters of Computer Application – 2019 – 67.22%

## B.Sc. / Vidyasagar University, Midnapore, India
### Mathematics Honours – 2015 – 62.12%

## Higher Secondary / WBCHSE, West Bengal
### Science Stream – 2010 – 71.20%

## Secondary / WBBSE, West Bengal
### General – 2008 – 73.87%

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# Activities

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| Date of Birth | 24 – April – 1993 |
| Gender | Male |
| Nationality | Indian |
| Languages | English (Professional Working), Hindi (Limited Working) |
| | Bengali (Full Professional), Oriya (Elementary) |
| Hobbies | Reading Detective Books, Cycling, Playing Card, Cricket |