# DEBRAJ DEY

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Portfolio

## EDUCATION

- **Purdue School of Science** — **MS in Computer and Information Science** — **Grad: May 2019 (GPA- 3.30)**
- **Calcutta Institute of Technology** — **BTech in Computer Science and Engineering** — **Grad: August 2016 (GPA- 3.65)**

## SKILLS

- Java || JavaScript || HTML || CSS || Bootstrap || Angular || React || jQuery || Node || Vanilla || Version Control – Git || Redux
- WordPress || Drupal || Webservices || Webpack || Parcel || GraphQL || REST || SOAP || Tableau || Google Analytics || AWS
- JSON || XML || CSV || XSL || MYSQL || PIG || HIVE || SPARK || Ambari Sandbox || C++ || Selenium || D3 Libraries || Design Patterns
- CI/CD - Jenkins || Chai || Visual Studio || Eclipse || IntelliJ || Wireshark || Carshark || Shopify || JIRA || SEO

## WORK EXPERIENCE

➢ *Web Developer,* University Information Technology Services (UITS) at Indiana University — **November 2017 – May 2019**
- Responsibility includes website development on different platforms using HTML5 | CSS | JavaScript | Bootstrap | Angular | React.
- Worked with different data formats like XML | JSON also managing university information and database. Used repositories like GIT | SVN.
- Used content management systems like WordPress and Drupal, including website connectivity with Kaltura.
- Diagnosed errors, troubleshooting media plugins. Working alongside experienced software developer and testers.

➢ *Software Engineer,* Wipro Limited — **August 2016 – July 2017**
- Responsibility includes Web Application development testing, troubleshooting. Worked mainly in Agile Environment.
- Good amount of work done on Reactive forms or Web Forms 2.0 in Angular and their Validations. Used Node.js for server-side coding.
- Experienced in developing tools like Visual Studio, IntelliJ. Website Development and Database Connectivity using Firebird.
- Constant testing on email servers using MX Toolbox and troubleshooting the issue if not escalate.

➢ *Technical Assistant,* University Library at Calcutta Institute of Technology (CIT) — **January 2013 - December 2015**
- Responsibility included Database Administrator 40% Technical Analyst 60% including constant development of university website.
- Library Management- Registering books in college database, keep a track on books. Troubleshot hardware devices as well as helped students.

## WORK PROJECTS

➢ *Migration project (Indiana University)* — **November 2017 - April 2019**
- Developed new websites using HTML5 | CSS | JavaScript | Bootstrap, with constant testing and covering all possible test cases.
- Expertise in Angular framework directives, services, controllers, filters, templates, events and injectors.
- Migrated university blogs and media to Kaltura Media Space. Adding RSS feeds to playlists and test them on different platforms.
- Installed and activated different Plugins in CMS like WordPress and Drupal on the university blogs pages and tested functionality.
- Database connectivity process between Kaltura and University server. Monitoring server usage SolarWinds SAM.

➢ *The Polis Center - IUPUI* — **April 2018 - March 2019**
- Responsible for the architecture, design, implementation using HTML | CSS | JavaScript. Updated website inventory using WordPress.
- Utilized Angular to implement website functionality. Made compatible with desktop, mobile and tablet by creating print friendly pages.
- Worked on different buttons, tabs, box design, animation to make them look appealing for better user experience.

➢ *Pain and Policy Studies Group* — **May 2018 - December 2018**
- Designed and deployed menus, submenus, side navigation bar for the Drupal website using HTML5 | CSS | JavaScript.
- Migrated the website from Drupal 6 to Drupal 7 after carefully backing up existing data and other settings and configuration.
- Customized footer, removed white spaces, updated the existing UI, made pages print friendly and browser compatible.

➢ *Searching Toolbox (British Telecom)* — **August 2016 - March 2017**
- Advanced Keyword Driven Searching Technique and worked on a new searching algorithm technique using Choco and Struts2.
- Identified, analysed and documented gaps in existing test coverage for the new advanced algorithm.
- Introduced new toolbar using HTML | JavaScript for product search, offer search, redeem codes and did error monitoring for fake codes.
- Advanced Login process, enabling more secured customer information and payment information.

➢ *BT TV New User Guide (British Telecom)* — **March 2017 - July 2017**
- Introduced BT Sports 3 and UEFA Champions League broadcast page using HTML | JavaScript. Validated Web forms using Angular.
- Worked on a new TV help tool for BT TV customers and a self-troubleshooting tool for users to get a quick fix.
- Developed, maintained and customized the existing live streaming media plugins. Created news pages for the user guide.

## OTHER PROJECTS

➢ **ASDF Gadget using React** — **January 2019 – Ongoing**
- Designed the Gadget website and deployed a Single Page Application (SPA) using JavaScript framework called React.
- Worked with React JS components, Forms, Events, Keys, Router, Animations and Flux concepts. Ongoing ecommerce add remove cart application.

➢ *Games - CatRatDog, Blackjack* — **December 2018 - April 2019**
- Developed the front-end using CSS | HTML5 | XHTML | Bootstrap | JavaScript framework to build this single player game.
- Typed.js library is used for better UI Design. Covered and reviewed all the test cases carefully to achieve an accurate result.
- Used Different functional logic to make the games much more interactive and fun to play to achieve a satisfying user experience.

➢ *Data Visualization on Game of Thrones Dataset* — **January 2018 – May 2018**
- Implemented Force-Directed Graph, Interactive Web, Interactive Bubble Chart using d3.js libraries.
- Used HTML5 and CSS to build the main page and include all three-visualization techniques. Used Kaggle's dataset.
- Analyzed the family tree and dynasty of the characters in the series and books. Also, measured the weighted average.

➢ *Electronic Voting System Using Blockchain (Hyperledger)* — **August 2018 – December 2018**
- Used Hyperledger Composer and Hyperledger Fabric to create a permission blockchain application for electronic voting.
- Explored different possibilities for system design using JAVA, provided an implementation to satisfy the requirements of an EVS.
- Analyzed the performance of our system and reviewed the satisfaction of electronic voting system requirements.