

# JAI KUMAR DEWANI

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## EDUCATION

**International Institute of Information Technology, Naya Raipur**

*Bachelor of Technology in Computer Science*

**August '17 – June '21**

*Naya Raipur, Chattisgarh India*

## EXPERIENCE

**Carl Zeiss**

*Software Engineer*

**July '21 – Present**

*Bengaluru, Karnataka, India*

- Utilized design patterns to improve and introduce new features like black masking for Charts built on WPF
- Resolved bugs related to preview area and rendering of Visual Acuity and Chart Layouts in Chart Viewer
- Wrote unit tests for ChartViewer and other legacy projects to increase coverage for SonarQube

**Carl Zeiss**

*FullStack Intern*

**January '21 – June '21**

*Bengaluru, Karnataka, India*

- Implemented new methods, which were exposed as APIs using .NET framework to be utilised by frontend
- Created and deployed new gRPC servers for reducing coupling and introduce IPC channels for various services
- Utilized NUnit and Fluent Assertions for writing new unit test cases improving overall development cycle

## PROJECTS

**Meme Generator** | *JavaScript, React* | [WebApp](#)

**September 2020**

- Designed an easy to use single page application for creating memes
- Used KonvaJS for Canvas display logic for presenting editable images for users to add and drag text over to create memes
- Built features for the ease of downloading memes and upload custom images for your custom memes

**DeepNeural Net Visualiser** | *Tensorflow, Flask, Streamlit* | [WebApp](#)

**June 2020**

- Built a webapp for easier visualisation of hidden layers in a Neural Net in real-time
- Utilised Streamlit to create a clean frontend design to update the model layer by layer
- Deployed the project on free-tier Heroku service to be easily accessible by anyone

**FunMark** | *Python* | [GitHub](#)

**May 2020**

- Developed a wrapper library for bench-marking different functions and allowing creation of graphical comparisons
- Released on PyPi package manager to be easily accessible with pip with currently over 2K downloads
- Wrote a blog on how to utilise the library efficiently [jai-dewani.github.io/blogs/fun-mark/](https://jai-dewani.github.io/blogs/fun-mark/)

**Lab Works** | *HTML, CSS, Js, Bootstrap, Django, SQLite* | [GitHub](#)

**April 2019**

- Built a web platform to ease the lab assessments for technical courses involving standard coding problems
- Devised a solution regarding issues with the manual process of lab assistants checking each submission manually
- Used 3rd party API which provides a safe environment to compile and run code while supporting wide range programming languages

## TECHNICAL SKILLS

**Languages:** C#, Python, JavaScript

**Developer Tools:** Heroku, Git, GitHub, Adobe Illustrator, CI/CD

**Technologies:** ASP.NET, WPF, gRPC, Node.js, React, Express, Bootstrap, Passport, Django

## ACADEMIC ACHIEVEMENTS & EXTRA-CURRICULAR

- **Mentored and Judged over 50+ teams** in various hackathons like HackCBS 4.0, HackOn 2.0 and DotSlash 4.0
- **Co-founded** the first technical club at IIIT-NR, organized various events, talks and hackathons to promote competitive programming and development while improve the coding environment of the Institute.
- Ranked **1127<sup>th</sup>** globally and **115<sup>th</sup>** in India in Google HashCode, out of 10724 teams
- Qualified ACM-ICPC 2020 in Kanpur(**rank 63**) and Gwalior regions
- Qualified ACM-ICPC 2019 in Kharagpur(**rank 81**) and Amritapuri(**rank 37**) regions.
- Successfully cleared the Foundation level in **CCDSAP Certification** CodeChef.
- Qualified CodeChef's Snackdown with a rank of **2587 out of 27875** teams
- Ranked **3<sup>rd</sup> in Codeutsava 2020** 2020, NIT Raipur's Annual Hackathon out of 30 participating teams