

# JAI KUMAR DEWANI

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## EXPERIENCE

### Carl Zeiss

July '21 – Present

Software Engineer

Bengaluru, Karnataka, India

- Led the development of the critical Chart Viewer segment, successfully driving it to the market for the product release
- Collaborated with the team to optimize Chart Viewer usage, ensuring exposure and utilization of only atomic operations
- Optimized workflows by restructuring into asynchronous tasks and notifications for improved efficiency
- Introduced new features based on customer feedback, including the addition of black masking and enhancements to existing functionalities.
- Enhanced team agility through streamlined development by introducing hardware behavior mocking, reducing device dependency for more efficient testing and debugging

### Carl Zeiss

January '21 – June '21

FullStack Intern

Bengaluru, Karnataka, India

- Coordinated with cross-functional teams to define and integrate API requirements seamlessly
- Designed IPC channels and deployed gRPC servers to reduce coupling for enhanced communication among services
- Utilized NUnit and Fluent Assertions to develop new unit tests, enhancing the overall development cycle

## EDUCATION

### International Institute of Information Technology, Naya Raipur

August '17 – June '21

Bachelor of Technology in Computer Science

Naya Raipur, Chattisgarh India

## PROJECTS

### VISUCORE 500 | C#, Angular | [Zeiss VISUCORE 500](#)

Jan 2021 - Current

- Enhanced ChartViewer, a visual acuity testing desktop app
- Collaborated with German team to enhance and transfer Refraction module
- Decomposed monolithic project into 3 gRPC-based services to minimize coupling

### VISUSCREEN 100/500 | C#, HTML, CSS, JS | [Zeiss VISUSCREEN 100/500](#)

June 2023 - August 2023

- Implemented a lock and release mechanism to ensure a maximum of one connection to critical communication channels, ensuring system stability
- Produced comprehensive system software integration documentation to facilitate the seamless release of software changes into the market
- Mastered end-to-end product life cycle and Agile methodologies

### 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/)

## TECHNICAL SKILLS

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

**Developer Tools:** Azure, Git, GitHub, CI/CD

**Technologies:** ASP.NET, WPF, gRPC, Node.js, Angular, React

## 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.