JAI KUMAR DEWANI

📞 9340422023 ✉ jai.dewani.99@gmail.com in linkedin.com/in/jai-dewani ⌗ github.com/jai-dewani

EXPERIENCE

Carl Zeiss - Vision Care R&D and Technologies   **July 2022 – Present**
Design Engineer   *Bengaluru, Karnataka, India*

- Owned the product and lead the development of the Visual Acuity testing module, driving successful **market release**
- Assumed a leadership role within the team, working alongside them to successfully deliver VISUCORE Release 1.1
- Collaborated with hiring managers to successfully recruit top-tier entry-level and experienced developers, enhancing the talent pool for our team and VTS division
- Enforced atomic operations to streamline development and reduce cognitive load
- Designed a queuing mechanism in the response handler, **reducing click-to-response time by 40%** during high-frequency interactions
- Migrated product from .NET Framework 4.8 to .NET 8, enhancing performance, future-proofing development, and eliminating security vulnerabilities
- Engineered an interop wrapper around C++ driver DLLs to bridge hardware-level integrations ensured reliable cross-language communication and reduced dev effort by 30%.

Carl Zeiss - Vision Care R&D and Technologies   **June 2021 - June 2022**
Software Engineer   *Bengaluru, Karnataka, India*

- Enhanced team agility by refining hardware mocking to minimize dependence on physical devices.
- Improved code quality and security through PR checks, static analyzers, and adherence to Roslyn's best practices.
- Aligned cross-functional teams to define and seamlessly integrate API requirements, ensuring clean and extensible code
- Integrate gRPC to facilitate IPC mitigating coupling and optimize parallel development across services

EDUCATION

International Institute of Information Technology, Naya Raipur   **August '17 – June '21**
Bachelor of Technology in Computer Science   *Naya Raipur, Chhattisgarh India*

PROJECTS

VISUCORE 500 | *C#, Angular* | Zeiss VISUCORE 500   **Jan 2021 - Current**

- Owned the development of visual acuity testing module for market releases - R1 and R1.1
- Collaborated with Product team to transfer Refraction module and reduce turn around time by enhancing **performance of workflow by 28%** through restructuring the application response keeping asynchronous design principles at the center

VISUSCREEN 100/500 | *C#, HTML, CSS, JS* | Zeiss VISUSCREEN 100/500   **June 2023 - August 2023**

- Designed and implemented a lock-and-release mechanism to enforce mutual exclusion protocol to critical communication channels, enhancing system stability
- Authored comprehensive system integration documentation to enable seamless software releases

FunMark | *Python* | GitHub   **May 2020**

- Developed a minimal-overhead wrapper to benchmark and visually function performance
- Released on PyPi package manager to be easily accessible with pip with currently over 7K downloads

TECHNICAL SKILLS

Languages & Frameworks: C#, .NET, Angular, JavaScript, Python
Developer Tools: Azure, MSBuild, MySQL, SonarQube, Blackduck, IRIUS Risk Docker, CI/CD, Git
Technologies: .NET, ASP.NET WPF, gRPC, Node.js, Angular, React

ACADEMIC ACHIEVEMENTS & EXTRA-CURRICULAR

- Contributed to open-source tools like Excalidraw, PowerToys
- Organized Coding Dojos between Indian and German colleges to foster collaborative hacking culture
- **Mentored and Judged over 100+ teams** across nationwide hackathons like HackCBS 4.0, HacckOn 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.
- Qualified ACM-ICPC 2019 & 2020 in Kanpur(**rank 63**), Kharagpur(**rank 81**), Amritapuri(**rank 37**) and Gwalior regions