Bhavjit Singh Kesar

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EXPERIENCE

Carl Zeiss - Vision Care R&D and Technologies   July 2022 – Present
Design Engineer   *Bengaluru, Karnataka, India*
- Owned product and spearheaded the development of the Visual Acuity testing module, overseeing its **market release**
- Collaborated with hiring managers to successfully recruit top-tier entry-level and experienced developers, enhancing the talent pool for our team and division.
- Enforced atomic operations, streamlining complexity and reducing cognitive complexity
- Executed migration of product from .NET Framework to .NET Core, improving performance, eliminating dependency on obsolete libraries blocking future development
- Streamlined request handling efficiency through the design of a queuing mechanism in the response handler, achieving a **40% reduction in click-to-response time** over multiple clicks

Carl Zeiss - Vision Care R&D and Technologies   June 2021 - June 2022
Software Engineer   *Bengaluru, Karnataka, India*
- Empowered team agility with advanced development strategies, refined hardware mocking to reduce device reliance
- Boosted testing and code quality through PR checks using static analyzers and rigorous code reviews
- Aligned cross-functional teams to define and seamlessly integrate API requirements, ensuring clean and extensible code
- Created IPC channel protocols and integrated gRPC to mitigate coupling and optimize communication across services
- Utilized NUnit and Fluent Assertions to develop new unit tests, helping improve the overall development cycle

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 it's first and second market release
- 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
- Decomposed the monolithic architecture into 3 micro services communicating via gRPC to minimize coupling
- Ensured secure and robust code quality by following best code quality & style analyzers set by Roslyn
- Mastered end-to-end product life cycle and Agile methodologies

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 zero-overhead wrapper to benchmark and visually depict function performance.
- Released on PyPi package manager to be easily accessible with pip with currently over 6K downloads
- Documented the process on how to utilize the library efficiently on jai-dewani.github.io/blogs/fun-mark/

TECHNICAL SKILLS

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

ACADEMIC ACHIEVEMENTS & EXTRA-CURRICULAR

- **Mentored and Judged over 50+ teams** in various 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.
- Ranked **1127th** globally and **115th** 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.