Kumar Biplav

biplav@wisc.edu **|** +16089494406 | https://biplavk.github.io | https://www.linkedin.com/in/kumar-biplav-4790667a/
Madison, WI

Education:

Master's in Computer Science   Aug 2019 – May 2021

University of Wisconsin, Madison, WI, USA
- Coursework: Artificial Intelligence, Operating System, Data management

Bachelor of Engineering (B.E.) in Information Science & Engineering   Aug 2011- June 2015

The National Institute of Engineering, Mysore, India   GPA: **8.46/10.0**
- Coursework: Data Structures & Algorithms, Operating Systems, System Software, Networking, Database Management System, Discrete Mathematics Structures, Data Communication & Networking.

Technical Skills:
- **Languages**: C/C++, C# , Python, Perl, HTML, SQL, Shell Scripting, PHP
- **Libraries**: MySQL, Git, SVN, scikit learn, JIRA, Docker, Jenkins, Linux/Unix

Professional Experience:
Software Engineer, **Qualcomm, India**   May 2017 – July 2019
- Involved in new feature development, design enhancements and bug fixing for Qualcomm's 8X and 10X chipset for Windows OS, worked on various work fronts such as device communications, software level implementation of hardware signals, framework development.
- Implemented a feature for customized build loading and bring up the boot loader on the device.
- Developed feature for collecting and analyzing the system crash dump and provided api's to manage the device state.
- Helped in reducing the time required for Thumb Drive Flashing of device.
- Designed and implemented a tool from scratch which captures the issues across different product, generate analysis reports and provide the automated solution based on previously reported issue which helped project management to track different project efficiently and reduced the worked load of team by 20%.
- Honored with Qualstar (Qualcomm Appreciation Award) twice for outstanding performance and contribution to the organization.

Software Engineer, **Nokia, India**   July 2015 - May 2017
- Member of Flexi-platform a Linux based platform for IP applications, worked on High Availability System, Digital Signal Processing, Software Update Management, Backup & Restore, also fixed bugs reported by the internal or external customers.
- Implemented a feature for the communication of different types of Digital Signal Processing devices using C++ and shell script.
- Implemented a feature to detect the power state change in Digital Signal Processing Devices and act based on the change.
- Developed a Document Review Tool (Training project) using C#, which help multiple user to review a word document and provide inline comments.

Volunteer Experience:
- Worked as a coordinator in the intercollege fest at The National Institute of Engineering, Mysore and organized coding contest for the college fest.
- Mentored juniors and helped them with Data Structures and Algorithms

Academic Projects:

Program Dependent Flowchart Generator and Plagiarism Detection   Jan '15 – May '15
- Created a tool that generate flowchart of a program. Based on the flowchart comparison of the two programs are done and percentage of plagiarism is calculated
- Developed by using Shell script and PHP, Linux and Ocaml

Placement Portal   May '14 – June '14
- Developed a website for College Placement Department to keep track for student placement records using HTML, PHP, CSS, SQL and saved hours of manual analysis of Excel sheets.

SIC Assembler   Nov '13 – Dec '13
- Developed a tool which converts mnemonic operation code to their machine language equivalent using C.