

Kumar Biplav

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EDUCATION

- **University of Wisconsin** Madison, WI
Master of Science in Computer Science; *Aug. 2019 – May. 2021*
Coursework: Artificial Intelligence, Operating System, Data management
- **The National Institute of Engineering** Mysore, India
Bachelor of Engineering in Information Science; GPA: 8.46/10.0 *Aug. 2011 – June. 2015*
Coursework: Data Structures and Algorithms, System Software, Networking, Database Management System, Programming, Data Communication and Networking.

PROGRAMMING SKILLS

- **Languages:** C, C++, C#, Python, Perl, Shell Script, SQL
- **Technologies:** Git, SVN, Jira, Jenkins

EXPERIENCE

- **Qualcomm** Hyderabad, India
Software Engineer *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 feature for customized build loading and bring up the boot loader on the mobile device.
 - Developed feature for analyzing the system crash and provided APIs to manage the device state.
 - Helped in reducing the time required for Thumb Drive Flashing of windows 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%.
 - Awarded with Qualstar (Qualcomm Appreciation Award) twice for outstanding performance and contribution to the organization.
- **Nokia** Bangalore, India
Software Engineer *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 to establish communication between different types of digital signal processing devices based on advanced telecommunications computing architecture using C++ and shell script.
 - Implemented a feature to change the power state of advanced telecommunications computing architecture devices and reduce the overall power usage.
 - Developed a Document Review Tool (Training project) using C#, which help multiple user to review a word document and provide inline comments.

PROJECTS

- **Program Dependent Flowchart Generator and Plagiarism Detection:** An application that generate flowchart of a C program and calculate the plagiarism percentage
- **Placement Portal:** 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.
- **Two Pass SIC Assembler:** An application which converts mnemonic operation code to their machine language equivalent using C and Linux