

AKSHATA BHARADWAJ KODAGNUR (ABK)

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ACADEMIC QUALIFICATIONS

- Arizona State University **CGPA: 4.0** **Aug 2022 – May 2024**
 - Pursuing master's in Software Engineering from fall 2022.
 - Graduate Teaching Assistant for Fall 2023 semester
 - Took courses like Advanced Data Structures & Algorithms, Software Design etc.
- PES University **CGPA: 8.66** **Aug 2015 – Aug 2019**
 - Bachelor of Technology in Electronics and Communication Engineering, PES University, Bengaluru, Karnataka, India,
 - Minor degree in Computer Science, PES University, July 2017.

TECHNICAL SKILLS

- Programming Language: C, C++, Java, C#, .NET, Python and Prolog
- Experience in Windows and Linux Development
- Proficiency in Visual Studio, GIT, Perforce, LabVIEW

WORK EXPERIENCE

Staff Software Engineer, National Instruments, India Pvt Ltd.

July 2019 – July 2022

- *As an intern:* Worked on pattern matching while I was a part of the computer vision team, familiar with agile methodologies. Worked on a huge codebase in C++.
- *As a junior developer:* Used innovative technologies like gRPC, GitHub, Azure DevOps. Contributed (Akshata440) to GitHub repo <https://github.com/ni/grpc-device>. Used C++ and Python for gRPC projects.
- Developed .NET applications like Hardware Configuration Utility and LabVIEW NXG, using C#.
- *As a staff developer:* Actively involved in high level design, research, development, debugging and testing of features for applications.
- Led multiple features to completion well within deadlines.
- Mentored an intern and guided him towards achieving his targets.

PROJECTS, INTERNSHIPS & PAPERS

Title: Air Quality Monitoring System

January – May 2023

- Software design project: Designed a system in Java that checks for the Air Quality Index and takes the necessary actions to maintain the indoor air quality.

Title: Designing Hamlet Code

January – May 2023

- Designed a new programming language called Hamlet code. We created the grammar, tokenizer (using Python), parser and evaluator (using Prolog) to compile and execute Hamlet programs.

Place: NI Systems India Pvt Ltd

January – July 2019

Projects:

- *IPBuilder Contingency Exploration:* Involved image processing on FPGA
- *Pattern Matching Presets for Infotainment Images:* Pattern matching for dashboard systems in cars

Title: gRPC – Modern, language agnostic framework for RPC

October 2021

- This paper talks about the general overview of gRPC Technology and the different use case scenarios. We also have a case study of one such scenario along with how NI is leveraging gRPC in the company products.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

- Feature lead for multiple features during my employment at NI and I guided an intern toward achieving his goals.
- Graduate Teaching Assistant for a class of 188 students in Fall 2023.
- Member of Connecting International Community (CIC) at ASU. I have volunteered for organizing events like 'Night of Symphony' and 'Mini Carnival.'