

# Abhishek Deore

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## WORK EXPERIENCE

### Software Engineer 2 (C++, JavaScript, MATLAB)

Feb 2023 – Present

*The MathWorks Inc., Natick, MA*

- Collaborated on **migrating** internal foundation libraries, focusing on Simulink configuration sets, components, and custom build targets to **achieve unification** using a common object system for C++ and MATLAB.
- Setup a project for the new Quickstart UI wizard in JavaScript, aligning with new design enhancements - led an intern on this project.
- Worked as an **Individual Contributor** on a project on migration of a unified data object representation framework for a medium-sized UI component in C++ which is used to present Simulink Data Dictionaries and their entries on UI.
- Refactored a legacy source C++ file with **10K+ lines of code**, broke it into several classes and attained **decoupling** between those.
- Debugged unit test failures, achieving a **24%** error reduction after moving to the new foundation library and improving reliability.

### Software Engineering Intern (Python, Go, ReactJS, PostgreSQL, Redis)

May 2022 – Dec 2022

*DataChat Inc., Madison, WI*

- Built Redux cache, reducing backend calls by **80%**, and optimized chart loading by **18%**, and moved chart visualization out of beta.
- Enhanced UX by optimizing React error boundaries for handling of component failures; implemented Cypress and Jest tests.
- Fixed bugs in the Python backend and ReactJS frontend.

### Graduate Services Assistant (Java, Node.js, Spring Boot, JavaScript, MongoDB)

May 2021 – May 2022

*Arizona State University, Tempe, AZ*

- Built and maintained a public GitHub repository for a web application development and security course with **120+** students.
- Created lab activities and code samples to debug and eliminate Cross site scripting (XSS) attacks.
- Developed an Authentication Token Management System in Spring boot for a web app used by **5000+** users.
- Built an end to end OAuth system with all entities involved using Spring boot and JavaScript.

### Senior Software Engineer, (C++, Qt, Java, SQL)

July 2020 – Dec 2020

*Agiliad Technologies, Pune, India*

- Handled Java and MySQL backend tasks, including data migration and database partitioning, reducing load by **5%**.
- Enhanced the existing UI system to match with the modern UI design trends, which resulted in a strong positive client feedbacks
- Worked on a High Speed CT scanning - Aviation security product, installed at **1200+ Airport security checkpoints**.
- Created a logging module in C++ to track UI actions, participated in code reviews, and system design documents for the features.

### Programmer (C++, C#, WPF)

July 2017 – June 2020

*Ubisoft Entertainment, Pune, India*

- Developed an experience points and rewards system for **Far Cry 5 (25M+ copies sold)** and built a notification system for 100K+ users.
- Reduced input latency by **50ms** as an AI programmer and managed 4 projects, including code reviews and system maintenance.
- Migrated the map editor from console platform to Windows, boosting performance by **12%**, while collaborating with international studios on gameplay and engine programming.
- Mentored and **led a team of 10+** junior programmers, to engineer a UI system and an Input system.

## EDUCATION

### Master of Science, Software Engineering (GPA: 4/4)

Jan 2021 – Dec 2022

*Arizona State University, Tempe, Arizona*

- Relevant Coursework: Distributed Database Systems, Software Design, Advanced Data Structures and Algorithms, Mobile Systems

### Bachelor of Engineering, Computer Science & Engineering (GPA: 9.3/10)

Aug 2014 – June 2017

*Pune Institute of Computer Technology, Pune, India*

- Relevant Coursework: Operating System Architecture and Design, Object Oriented and Multicore programming, Computer Networks

## PROJECTS

### DevToys – A Swiss Army knife for developers (C#, .NET, WPF, UWP)

Jan 2022 – Present

- Actively contributing to the **open source** project – DevToys which is a much safer alternative to online data modification tools used by software developers. The project repository has **10K+ stars** and **500+ forks** on **GitHub** (<https://github.com/veler/DevToys>).
- Designed and coded an HMAC authentication code generator, debugged issues and wrote unit tests for the new feature

## TECHNICAL SKILLS

**Programming Languages** C++, C++11, C++14, Java, JavaScript, Python, C#

**Frameworks** Express, React, Spring boot, Qt, .NET

**Databases** MySQL, PostgreSQL, MongoDB, RDS

**Other Skills** STL, Visual Studio, Linux, Windows, Docker, Git, Perforce, AWS, Maven, Gradle, REST API