

# SHUBHAM GARG

## Software Engineer

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in shubhamgarg-se



## Experience

### Adobe Inc.

#### Computer Scientist - II

July 2023 – Ongoing

Noida, India

- Innovated with Generative AI technologies, delivering [Generative Recolor](#), first GenAI feature in Adobe Illustrator
- Delivered [Text2Vector](#) in Adobe Illustrator at [Adobe MAX 2023](#), significantly expanding Illustrator's capabilities.
- Created [Text2Icon](#) Generative AI model to generate Icons with strokes and fills, substantially improving the quality and editability of icons

#### Computer Scientist - I

Oct 2021 – June 2023

Noida, India

- Delivered and enhanced multiple features for [Illustrator on the Web](#), including Type On Path, Canvas Rotation, Live Blends, and Zoom Tool.
- Achieved successful public beta release of [Illustrator on the Web](#) at [Adobe MAX 2023](#) by fixing blocker/critical bugs and addressing multiple feature requests from internal and external stakeholders.
- Implemented and optimized critical Vector Graphics design features in [Adobe Express](#) using innovative solutions.

### Synopsys Inc.

#### R&D Engineer, Sr I

Nov 2020 – Oct 2021

Noida, India

- Led various projects to design and implement new features resulting in winning at major Customers.
- Designed USB feature using OOAD with Factory & Singleton Patterns.
- Enhanced the debug capabilities for complex Synopsys DFT IPs.

#### R&D Engineer II

May 2019 – Oct 2020

Noida, India

- Optimized the size of Testbenches by 45% by algorithmic improvements.
- Debugged & Automated various Testbenches of Synopsys Scan Test IP's.
- Developed the team by training and guiding multiple teammates.

### HCL Technologies Ltd.

#### Senior Software Engineer

July 2017 – May 2019

Noida, India

- Developed Text Localization algorithm with more than 95% accuracy, by using ResNet architecture.
- Led the design & development of the [EXACTO](#) Cheque solution.
- Designed APIs to interact with the [EXACTO](#) Service on Azure cloud.
- Improved the user experience by building an Android app to interact with cloud APIs.

## Programming

C++ C Python Javascript

## Skills & Strengths

GenerativeAI WebApps  
Vector Graphics Computer Vision  
WebAssembly NodeJS  
Automation Design for Test

Git VSCode Pycharm  
Xcode Vim GNU toolchain  
Chrome DevTools  
MacOS Linux Windows

Motivator & Leader Ambitious  
Inquisitive Achiever Consistency

## Certifications

### Vector Databases Professional Certificate

@ Weaviate

### Docker Foundations Professional Certificate

@ Docker Inc.

### C++ Programming Professional Certificate

@ OpenEDG C++ Institute

### Programming with Python Professional Certificate

@ OpenEDG Python Institute

### JavaScript Foundations Professional Certificate

@ Mozilla.org

### ACP in Graphic Design & Illustration

@ Adobe Inc.

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## Exicom Tele-Systems Ltd.

### Embedded Software Engineer

July 2016 – July 2017

Gurgaon, India

- Led the design & development of the **WCBMS** product.
- Decreased production cost by 30% by redesigning product hardware.
- Created new features by implementing USB 2.0 and WiFi capabilities.
- Improved the user experience by building an Android app to communicate with the product.
- Decreased memory usage by 88% by algorithmic improvements.

## Leadership and Awards

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### Awarded Special Contribution award by Adobe Illustrator team

Successful delivery of various Generative AI features in Adobe Illustrator across multiple platforms

### Awarded Spot Bonus by Adobe Illustrator team

Implemented complex technologies in Illustrator on the web

### President at Embedded Systems & Robotics Club, NIT Kurukshetra

Organized & taught various workshops on Embedded Systems Design with the overall participation of more than 300 students.

### Co-Convener at TechSpardha'16, NIT Kurukshetra

Designed & Organized various competitive events in national-level fest to challenge the Robotics knowledge of the participants.

### 6th rank in Freescale Cup 2015, India

A National-level car race, which witnessed participation of 120 teams from 40 colleges across the country.

### 1st rank in Texas Instruments India Analog Maker Competition 2014

A College-level contest to solve system-level design problems by using Analog IC's.

### Awarded Central Sector Scheme of Scholarship (CSSS) 2012

A Scholarship provided to meritorious students while pursuing higher studies by Ministry of Human Resource Development.

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## Software Security Practitioner - Defending C++

@ Security Compass

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## Cloud Computing Concepts

@ University of Illinois

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## Deep Learning Specialization

@ DeepLearning.AI

## Education

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## B.Tech in Electronics & Communication Engineering

### NIT Kurukshetra

July 2012 – June 2016

CGPA : 8.87 / 10