SHUBHAM GARG

Software Engineer

@ shubham.garg21@outlook.com in shubhamgarg-se
📞 +91-7206677686

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.
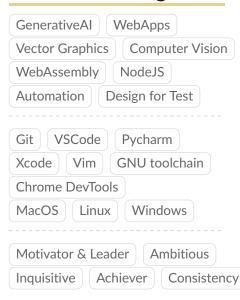
HCL Technologies Ltd.

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.

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

🏆 **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.

Software Security Practitioner - Defending C++
@ Security Compass

Cloud Computing Concepts
@ University of Illinois

Deep Learning Specialization
@ DeepLearning.AI

Education

B.Tech in Electronics & Communication Engineering
NIT Kurukshetra

📅 July 2012 – June 2016
🎓 CGPA : **8.87** / 10