Iqbal Singh

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Education

2008–12	**B.E., Computer Science & Engineering**, *Thapar University*, Patiala, India	**8.8/10**

Work Experience

Oct '17–Present **Blissway**, *Founding Member*

Blissway Software (OPC) Pvt. Ltd. is our startup venture. Launched in 2017, we're exploring multiple product ideas at the moment.

Apr '16–Sep '17 **Adobe Systems**, *Senior Member of Technical Staff*

Worked for Adobe Graphics Manager(AGM) – the core rasterization engine behind Adobe's creative products like Photoshop, Illustrator, InDesign, etc.

Aug '12–Mar '16 **Synopsys**, *R&D Engineer*

Worked in Synopsys' Platform Creator Tool(PCT) and Signal Processing Worksystem(SPW) teams.

Jan '12–Jun '12 **Informatica**, *Internship*

Worked in Adapters Development team for Informatica's PowerExchange ETL software.

Achievements

✓ Received Honourable mention twice, in 2016 and 2017, in top 25% out of 100+ excellent ideas from all Adobe offices worldwide in <u>Max Sneaks</u> - Adobe's internal annual international innovation challenge for employees and researchers to show their disruptive innovations.

✓ Used Transfer Learning on Google's Inception Deep CNN to build a binary classifier that distinguishes a person wearing Shirt vs. T-Shirt for a mobile App POC at Adobe.

✓ Enhanced core scan conversion algorithm in AGM to properly render more complex vector shapes like pixel perfect self intersecting paths.

✓ Attended a 3 day dedicated classroom learning series on Deep Learning at Adobe Systems. Topics covered were CNNs, RNNs, Auto-Encoders, and brief introduction to GANs.

✓ Received Spot Award at Synopsys for fixing multiple, long standing, complex software crashes in SPW.

✓ Developed a relatively miniature version of Microsoft's Excel-like table infrastructure for Synopsys' Platform Architect Tool that was integrated with critical product functionalities and enabled the end user to drive and analyze all major product flows from the tables.

✓ Ported entire Platform Architect legacy source code from Qt version 3 to Qt version 4(Qt is a C++ library for building desktop applications), a massive endeavor of multi-man years of estimated effort. This gave a fresh UI to the product out of the box, and new capabilities to developers.

✓ Developed Crash Reporting utilities for SPW both on windows and Linux. These utilities automatically generate a memory dump of running SPW if the software crashes and inform the user about the product crash and memory dump location.

✓ Worked on improving the performance of "Informatica's PowerExchange for Greenplum" at Informatica Corporation. Close to 2x gains were achieved.

✓ Secured a rank in top 0.5% out of more than 1 million students appearing in All India Engineering Entrance Exam(AIEEE) 2009.

Technical Skills

Languages	C/C++, Java, Python, HTML, CSS, Javascript
Libraries	scikit-learn, keras, Angular, Node.js
Platforms	Linux, Windows