

## SOFTWARE DEVELOPMENT ENGINEER

### Career Overview

Currently pursuing my Masters in Computer Science at UMass Amherst, I have three years of Software Development Experience. I have worked as an SDE for Play Games 24x7 Pvt. Ltd., I did my B.Tech from DA-IICT, have worked as Software Developer for KDE as a part of Google Summer of Code and Automation Engineer Intern at Oracle Retail. I have interests in Machine Learning, Algorithm Design & Analysis, Software Security, Computer Networking, and I am looking to work in these areas.

### Qualifications

Interest Areas - Machine Learning, Natural Language Processing, Algorithm Design and Analysis, Software Security, Computer Networking, Information Retrieval, Artificial Intelligence Programming Languages - Java, Python, MySQL, JavaScript (Familiarity with: Scala, Bash, Ruby, C, C++, HTML, CSS) Development Technologies - Spring, Android, Hbase, Ehcache, Terracotta, RabbitMQ, Redis, Akka, JDBC, Hibernate, MyBatis, Node.js. Apache Tomcat, jQuery, Django, Rails, Selenium Software Tools Used - Git, SVN, Ant, Maven, Eclipse, Android Studio, WireShark, Vim

### Accomplishments

- Oracle Retail on products like RMS (Retail Merchandising System) and Allocation.
- Used technologies like QTP (Quick Test Professional) for RMS and Selenium Webdriver for scripting and execution of test cases.
- PROJECTS October 2012 to Certified Electronic Mail November 2012 <http://slidesha.re/certemail> Studied the properties and commented on possible (desirable + implementable) combinations for a Certified Electronic Mail System for providing Security to Electronic Mail with a focus on improving security features of existing widely used security protocols: S-Mime, PGP.
- Team Size - 5 Link to Presentation - <http://slidesha.re/certemail> October 2012 to Synthesize Reactions using Chemical Computing Constructs November 2012 <https://github.com/pankajb64/reaction-synthesizer> Analyzed how various computing constructs could be synthesized using appropriate chemical reactions and wrote a model class for the same.
- Link to project source - <https://github.com/pankajb64/reaction-synthesizer> Technology - Java.
- Team Size - 3 January 2012 to Ecodena April 2012 <https://github.com/pankajb64/ecodena> Created an Online Judge System, which attempts to motivate novice users towards problem solving by providing comprehensive error reporting and a variety of tutorials.
- Technology: Django (based on Python).
- Team Size - 9 Link to project source - <https://github.com/pankajb64/ecodena> April 2015 to May Duckworth Lewis (D/L) Calculator for Android 2015 <https://github.com/pankajb64/duckworth-lewis-d-l-calculator-android> Designed and Built Duckworth Lewis Calculator - an Android application which lets users predict scores and results in rain interrupted cricket matches.
- Technology: Android.
- Link to play store app - <https://play.google.com/store/apps/details?id=com.fl.dlc>.

### Work Experience

07/2013 to 05/2013

Software Development Engineer Amazon Lab126

- Worked as SDE for RummyCircle.com, one of the major products of Games 24x7.
- Involved in Full Stack Web Development.
- Technologies - Java, Spring, Spring Security, Jersey (JAX-RS), Hbase, Ehcache, Terracotta, Redis, Akka, MySQL, Hibernate, MyBatis, Node.js.
- Accomplishments include horizontal scaling of distributed caches using Ehcache and Terracotta, building Resilient Web Services and strengthening application security using Spring Security.

05/2012

Bickford Senior Living

- August 2012 (4 Software Developer months) Integrated features of Facebook into KDE's micro blogging client, Choqok (Under the program Google Summer of Code 2012).
- Technology used: KDE4 based on Qt (C++ based GUI Framework).
- Link - <https://github.com/pankajb64/choqok-facebook>.

05/2011 to 07/2011

Software Developer

- Build base KDE library, namely KFB API, which formed the ground for Integrating Facebook Features for Choqok (which was done next summer under Google Summer of Code 2012).
- Technology used: KDE4 based on Qt (C++ based GUI Framework).
- December 2012 - Oracle May 2013 (6 Interim Automation Engineer months) Worked as an Automation Engineer with Merchandising Operations Management (MOM) Team at.

### Education and Training

September 2016

Master of Science : Computer Science University of Massachusetts Amherst Computer Science Machine Learning, Natural Language Processing 2013

Bachelor of Technology (B.Tech : Information and Communication Technology DA-IICT Information and Communication Technology 8.6/10

Relevant Courses Taken - Algorithms, Data Structures, Computer Networks, Databases, Operating Systems, Systems Software, Cryptography,

Security Protocols, Graph Theory, Computer Organisation, Natural Computing  
Skills

Ant, Apache, Artificial Intelligence, Automation, C, C++, com, Computer Networking, Computer Networks, Cryptography, CSS, client, Databases, Engineer, Features, GUI, HTML, Java, JavaScript, JDBC, jQuery, Machine Learning, MOM, MySQL, Natural, Natural Language Processing, next, Operating Systems, Operations Management, Oracle, Programming, Protocols, Python, Software Developer, Tomcat, Web Development