DOYEL PAL

311 S West St., Apt#4 ● Stillwater, OK 74074 ● pal.doyel@gmail.com ● (405)-612-4446

Education

Oklahoma State University - Stillwater, Oklahoma	Graduation: Dec 2015
PhD in Computer Science	GPA: 3.9

Calcutta University - Calcutta, India	Graduation: July 2011
Master of Technology in Computer Science and Engineering	GPA: 3.7
Bachelor of Technology in Information Technology	GPA: 3.7
Bachelor of Science in Computer Science	GPA: 3.5

Technical Skills

Operating Systems: Windows, Linux (Fedora, Ubuntu, Red Hat), Android.
Platforms/ Framework: Windows, Microsoft .NET, Android, J2EE, JCE.
Languages: Java, C#, C, PHP, R, Python, C++, VB, PL/SQL, T-SQL.
Databases: MySQL, SQL Server, Oracle8/ 9i and MS Access 2010.
IDE / Tools: Visual Studio .NET 2010/ 2013, Eclipse, Android SDK.
Technologies/ Concepts: .NET 4.0, HTML, XML, CSS, Java Script, VBScript, JSP, Web Services, Object Oriented Programming, UML.
Servers: IIS, Apache Tomcat, WAMP, LAMP.
Data Mining/ Data Visualization Tools: Tableau, RapidMiner, ReportServer, Orange, KNIME.

Professional Experience

Intern (Software Developer)   May 2015 – August 2015
Paycom, Oklahoma City, USA

- **Data Mining Project**
    - Predictive Analysis for marketing using third party softwares (Tableau, RapidMiner, ReportServer, Orange, R, KNIME).
    - Worked and Integrated Tableau with R and MySQL, RapidMiner with R and MySQL, ReportServer with MySQL for better Predictive Analysis result.
    - Client Data Mining to trigger new product suggestions and initiate revenue retention contacts.

- **Paycom Tax Application Project**
    - Working on Paycom Tax application module using C#, JavaScript, HTML, CSS and PHP.
    - Created and working on Web Form Applications using C#, LINQ, Dapper.NET, ADO.NET, MySQL on .NET Framework.

Software Engineer   July 2011 – May 2012
Kovair Software Pvt. Ltd., India

- Programmed on different modules of Software Development Life Cycle that provides a global platform for Application Life Cycle Management Solution.
- Used programming language C#, JavaScript, HTML, CSS on Microsoft Visual Studio .NET framework.

Intern (Software Engineer)   Oct. 2010 – June 2011
Variable Energy Cyclotron Centre (VECC), India

- Worked on **A Study on Verification of MESI Cache Coherency Protocol,** i.e., Modelling and Encoding the Safety Properties of the MESI cache coherency protocol.
- Used Logic, Prototype Verification System (PVS) tool and PVS specification language.

Intern (Software Engineer)   Sept. 2008 –June 2009
Interra Systems Pvt. Ltd., India

- Developed a tool for Distributed Regression Testing named **Prototype Development for Distributed Regression Testing System.**
- Used GNU/Linux, GNU C++, GNU makes, GNU auto-tools, GDB, and BoUML.

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Research Experience

Data Mining and Privacy | Advisor: Dr. Tingting Chen   May 2014 – Present
- Research on privacy preserving algorithms for Data Mining.
- Propose and develop a privacy preserving sequential pattern mining algorithm across multiple medical sites. Used programming language Java for implementation.

Cloud and Privacy | Advisor: Dr. Johnson Thomas, Dr. Tingting Chen   January 2015 – Present
- Research on privacy preserving algorithms in distributed cloud environment.
- Proposed and developed privacy preserving algorithm for cloud storage in distributed cloud environment.
- Proposed and developed multilevel threshold secret sharing algorithm in distributed cloud environment.

Privacy Preserving Biometric Authentication   January 2015 – May 2015
- Research on privacy preserving biometric authentication techniques.
- Proposed and developed a secure and privacy preserving biometric authentication algorithm using watermarking technique and homomorphic property.
- Used programming language Java, JAMA, EJML.

Android Application Project | Advisor: Dr. Tingting Chen   May 2013 – May 2014
- Designed and developed an Android application for secure mobile payments.
- Proposed and developed a new privacy preserving biometric based authentication algorithm.
- Used programming language Java, PHP, JSP, Android SDK, J2EE and WAMP.

Privacy Preserving Medical Record Linkage | Advisor: Dr. Tingting Chen   Dec. 2012 – April 2013
- Designed and developed a software for privacy preserving medical record linkage that handles error – prone data as well as for error – free data.
- Proposed and developed a new error tolerant linking algorithm for error – prone medical record linkage.
- Used programming language Java and MySQL, JCE, Bouncy castle cryptography library.

Teaching Experience

Instructor | Computer Science Dept., Oklahoma State University   Aug. 2014 – Present
- Teach computer science undergraduate 1000 level course to 65 students.
- Prepare syllabus, homework assignments, exams, quizzes and projects.
- Grade and evaluate homework, quizzes, projects and tests.

Teaching Assistant | Computer Science Dept., Oklahoma State University   Aug. 2012–May 2014
- Assisted professors with grading and homework evaluations in a timely manner.
- Supported faculties with 5 computer science course works for undergraduate and graduate students.

Part-time Faculty   Jan. 2010 – Dec.2010
Master of Computer Application Dept., Institute of Engineering and Management, Kolkata, India
- Taught Programming Language C, Software Analysis and Design, DBMS, Computer Graphics, Data Structures to Master of Computer Application students.

Academic Projects

- **Simulation of an Operating System**: Design and Implementation of single and multi-batch operating system using Java.
- **Simulation of different Instructions Set Architecture (ISA)** and comparison of their performances in multi core processors.
- M.Tech 2nd semester project: **Application of Wireless Sensor Network on Coordinate Free System.**
- M.Tech 1st semester project: **Service Record Computerization System for Pension Calculation of School Teachers** using Linux, Apache, MySQL, PHP (LAMP).
- B.S thesis: **Hospital Management System** using Oracle 9i and Visual Basic 6.0.

Publications

- Doyel Pal, Tingting Chen, Johnson Thomas – **"Privacy Preserving Sequential Pattern Mining Across Multiple Medical Sites"**, AMIA 2015 (Accepted).
- Doyel Pal, Praveen Khethavath, Johnson Thomas, Tingting Chen – **"Multilevel Threshold Secret Sharing in Distributed Cloud"**, SSCC 2015 (Accepted).
- Doyel Pal, Praveen Khethavath, Johnson Thomas, Tingting Chen – **"Secure and Privacy Preserving Biometric Authentication using Watermarking Technique"**, SSCC 2015 (Accepted).
- Praveen Khethavath, Doyel Pal – **"Privacy Preserving Distributed Cloud Storage"**, ICSIS 2015 (Accepted).
- Doyel Pal, Tingting Chen, Sheng Zhong, Praveen Khethavath **- "Designing an Algorithm to Preserve Privacy for Medical Record Linkage With Error-Prone Data",** JMIR Medical Informatics 2.1 (2014): e2.
- Presented Poster at KanSec 2013 Workshop on **"Privacy Preserving Data Matching Software".**
- Doyel Pal, B. C. Roy - **"The Classical Coding and Quantum Coding with application to Quantum Entanglement and Quantum Error Correction",** 5th International Conference of "Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC)", December 2011.

Grants

Received Student travel grant for KanSec Workshop.   2013

Training and Workshops

GNU Compiler Collection aka GCC Workshop   2007
Department of Radio Physics & Electronics, University Of Calcutta in collaboration with Indian GNU/Linux User Group, Kolkata, India.

Certificate Course in VB. Net   2006
CMC Limited, Kolkata, India

Summer School Program   2002
Indian Association of Cultivation of Science (IACS), Kolkata, India

Visa Status: F1