Vipin Pillai

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Education

Masters of Science, Computer Science   May 2018 (Expected)
University of Maryland, Baltimore County   GPA: 4.0

Bachelor of Engineering, Computer Science   June 2012
University of Pune, India.   Grade: First Class with Distinction

Work Experience

Software Developer at Amdocs - Alpharetta, GA   Nov '14 – June '16
- Led cross site development efforts for AT&T Halo enterprise project.
- Designed and implemented key functionalities in collaboration with customers and stakeholders.
- Resolved major performance bottlenecks in the application.
Technologies: Java, EJB, REST, Apache Solr, Maven, MySQL

Senior Subject Matter Expert at Amdocs - Pune, India   July '12 – Oct '14
- Designed and developed backend APIs for Amdocs BSC product using design patterns and Spring framework.
- Implemented modules using design patterns for feature enhancement of Amdocs SOM product.
- Implemented eclipse based plugin for product EPC.
Technologies: Java, EJB, Spring, Unix, SQL

Project Intern at TRDDC, India   July '11– Apr '12
- Worked under Tata Research Development and Design Center (TRDDC) on the design and development of a new code review specification language using lex, yacc and PRISM framework.
Technologies: Java, JLex, Jcup, Prism Framework, MISRA framework

Academic Projects

Predicting Crime Patterns   Oct'16 – Dec '16
- Implemented machine learning models like Naïve Bayes, Logistic Regression and deep neural network for predicting crime patterns using the spatiotemporal feature relations on Baltimore Crime & Arrests Dataset.

Game Solver for New Eleusis   Oct'16 – Dec '16
- Designed and implemented a probabilistic ranking algorithm for solving the card game 'New Eleusis' using inductive reasoning.

Specification Based Programmable Code Reviewer   July'11 – April '12
- Designed and developed a new query based specification language and the corresponding dynamic evaluator for evaluating custom code review checkpoints.

Short Advertisement Service   Jan'11 – August '11
- Designed and implemented a 'Fair Ad Insertion Algorithm' wherein multiple advertisers could compete for different keywords, and still maintain a fair distribution of the corresponding Ads.

Technical Skills

Language:
Java, Python, MATLAB, Lua, C++, C, UNIX, SQL, Javascript, PHP.

Database:
Oracle 11g, MySQL

Operating System:
Linux, Windows

Tools and Framework:
Eclipse, Torch, CUDA, Keras, Pandas, scikit-learn, GIT, Apache Solr, ActiveVOS, Perforce, Maven, EJB, Spring, JPA, JMS, Ant, Apache Hadoop, GTK+.

Certifications

Oracle Certified Associate Java 7

Relevant Coursework

Design and Analysis of Algorithms
Machine Learning
Artificial Intelligence
Principles of Compiler Design

Scholarships/Awards

TRDDC Best Project Award – 2012, IN

Amdocs Young ProdiG   – 2011, IN