ABHINAV DUTT

SOFTWARE ENGINEER
Visionary ~ Business Development ~ Due Diligence ~ Turn-around Management

754-215-2210 • *adutt003@fiu.edu*   *15189 S.W. 33rd Street • Davie, FL • 33331-2704*

Exceptionally capable software engineer combines superb technical skills with desirable troubleshooting and problem resolution capabilities. Currently, excels at using Java to develop new functionalities for PIPE Verifier (Bounded Model Checking High-Level Petri Nets Using SMT Solvers) and SAMAT (A Tool for Software Architecture Modeling and Analysis). Demonstrates readiness to bring diverse skillset to corporate arena challenges. *Areas of Expertise include:*

- ✓ New Functionality Development
- ✓ Test Defect Resolution
- ✓ System Technical Support
- ✓ Quality Assurance
- ✓ Operating Systems

- ✓ Targeted Telecom Support
- ✓ Data Structures and Algorithms
- ✓ Linux, UNIX, and Windows
- ✓ C/C++/STL, Python and Java
- ✓ Software Development

- ✓ Oracle 10G & MY SQL Databases
- ✓ Client Communications
- ✓ Training and Mentoring
- ✓ Problem solving
- ✓ Networking (TCP,UDP ,L2 and L3)

PROFESSIONAL EXPERIENCE

FLORIDA INTERNATIONAL UNIVERSITY • Miami, FL • May 2015-December 2015
A nationally recognized public research university

RESEARCH ASSISTANT
Expertly uses Java to design and develop new functionalities for PIPE Verifier (Bounded Model Checking High-Level Petri Nets Using SMT Solvers). Additionally, utilizes Java to explore similar functionalities for SAMAT (A Tool for Software Architecture Modeling and Analysis).

KEY ACCOMPLISHMENT:
- Successfully organizes, designs, executes, and assists with diverse research projects. Frequently performs independent research tasks as well.

CSG INTERNATIONAL • Bangalore, India • April 2013-March 2015
A globally recognized provider of diverse business support solutions

DEVELOPMENT CONSULTANT
Gathered project requirements, and conducted sprint planning and scrum management activities. Frequently engaged in brainstorming sessions with clients to enable a high-quality finished product. Consistently used Agile Development Methodology protocols. Designed and generated code for moderately complex to highly complex programs. Additionally, developed telecom solutions for Telstra, Spark New Zealand, and Airtel Africa. Created and ran targeted test transactions, and revised programs as needed to resolve anomalies. Played an active part in support activities during release schedules, including the Quality Assurance and User Acceptance Testing phases.

KEY ACCOMPLISHMENT:
- Effectively mentored less-experienced staff, helping them to steadily improve their technical skills.

AMDOCS, INC. • Pune, India • January 2011-March 2013
An internationally recognized software and services provider

SUBJECT MATTER EXPERT
Provided superb technical support in the Customer Service Management Department of the T-Mobile United States Billing Unit. Created and analyzed diverse functional requirement documents (LOE, FSD, and HLE) from clients such as Telstra, AT&T, and T-Mobile. Quickly resolved System Testing and User Acceptance Testing defects. Designed and implemented complex functionalities using C and Pro-C languages. Frequently utilized GDB to debug incorrect code, and fixed additional core issues as required. Coached and mentored incoming Subject Matter Experts, conducting numerous training and soft skills sessions.

KEY ACCOMPLISHMENTS:
- Designed and developed a fully automated telecommunications system for a major client, reducing manual intervention by 90 percent and enabling the client to actively combat its competition.
- Directed Quality Assessment and Root Cause Analysis efforts to reduce internal operational gaps, readjust goals, and reduce defect density per release version to a highly desirable 0.1 percent.

ABHINAV DUTT

SOFTWARE ENGINEER

VISIONARY ~ Business Development ~ Due Diligence ~ Turn-around Management

754-215-2210 • adutt003@fiu.edu

15189 S.W. 33rd Street • Davie, FL • 33331-2704

ACADEMIC PROJECTS

TWEETS ANALYSIS WITH MONGODB   **FEB 2016- APRIL 2016.**

- Implemented Tweet App, an application that manages tweets that are collected from Twitter. In order to do operations on those tweets, it uses a connection to a MongoDB database, which is a NoSQL database, effectively used Python and Mongo db.

CROSS-SITE SCRIPTING (XSS) AND SQL INJECTION VULNERABILITIES AND ATTACKS.   **JAN 2016- MARCH 2016.**

- Designed, implemented, and deployed a chat room web application that has vulnerabilities such as XSS and SQL injection and measures to avoid these vulnerabilities, effectively used PHP and MYSQL.

MULTITHREADED PROGRAMMING AND SYNCHRONIZATION   **MARCH 2016- APRIL 2016.**

- Designed multithreaded application in C++ with and without synchronization mechanism.

PANTHER BUDDY-STUDENT INFORMATION DASHBOARD   **AUGUST 2015- OCT 2016.**

- This project consists of the creation of a web application called Panther Buddy, which will allow any user interested in Florida International University to have access to an online message board in order to post relevant information regarding majors, housing, etc. and also view messages posted by other users of the system, effectively used Java.

STATISTICAL WORMHOLE DETECTION FOR MOBILE SENSOR NETWORKS   **JUNE 2015- AUGUST 2015**

- Implemented the statistical wormhole apprehension using neighbors (SWAN), a lightweight localized algorithm that detects wormholes in mobile wireless networks, using C++ and STL queues.

EDUCATION & TRAINING

Master of Science in Computer Science
FLORIDA INTERNATIONAL UNIVERSITY | Miami, FL | Expected Graduation: Aug -2016-GPA-3.5

Bachelor of Science in Information Technology
DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY (AKTU) (formerly Uttar Pradesh Technical University)
Uttar Pradesh, India | 2010-GPA 3.6

Technical Skills
Data Structures & Algorithms • Operating Systems: Linux, UNIX, and Windows • Databases: Oracle 10G and MY SQL
Middleware Server: Oracle Tuxedo
Languages: Java • Pro-C • C/C++/STL• C# • UML • R-Tool • SQL • Shell Scripting ,Python and Perl Scripting
Web API • XML Handling • UNIX Daemons and Jobs • CC Configuration and "Make Files" Handling

Tools
Quality Center • Selenium • GDB (C Debugging Tools) • Insure++ • CAD Vise • Toad • Microsoft Office and Beyond
Compare • VIM • Troubleshooting • Adobe Connect • Papyrus • Eclipse and HTML Coding • Jira• Matlab