+1-(213)2459397
koustavm@usc.edu

KOUSTAV MUKHERJEE

https://github.com/koustavmukherjee
www.linkedin.com/in/koustav-mukherjee

SUMMARY

Full-stack application developer with 5+ years of industrial experience. Passionate competitive coder and a hackathon enthusiast. Interested in software development, with inclination towards web applications, cloud computing and data analytics.

EDUCATION

University of Southern California	Master of Science, Computer Science	3.5 / 4.0	Aug, 2017 - May, 2019
Visvesvaraya Technological University	Bachelor of Engineering, Computer Science	83.7 / 100	Sep, 2007 - Jun, 2011

TECHNICAL SKILLS

Programming Languages / Frameworks:	Java, J2EE, Java Script, HTML, CSS, C++, Python, Angular-JS, Ext-JS, J-Query, Apache CXF, Play Framework, Spring Framework, Rest Easy, Rhino Engine
Databases:	MS SQL Server, MySQL, Derby
Web / Application Servers:	J-Boss, Wild-Fly, Apache Tomcat
Build Tools / Install Tools:	Install-4j, Jenkins, Maven, Apache Ant, NPM packaging, Bower

WORK EXPERIENCE

Software Engineer, General Electric Company, India   Jul, 2015 - Jul, 2017

• Developed a Single Page Web Application for configuring and laying out beds in ICUs, using AngularJS, HTML, J-Query and CSS

• Capitalized J2EE, Spring Framework, Rhino Engine and Java-script, and came up with a JMS Topic triggered "Rules Engine" framework, an IntelliSense based text editor for scripting custom rules and a portal for providing insights / decision support to clinicians

• Presented designs to global stakeholders in design review meetings, to ensure fulfilment of technical feasibility

Software Engineer (Edison Program), General Electric Company, India / Illinois, USA   Jun, 2013 - Jun, 2015

• Transitioned into GE's prestigious Global Leadership Edison Program and took initiative in planning and execution of assignments

• Migrated .NET based OR Manager product into J2EE Web Application and designed features for tracking surgery phases and location

• Collaborated with 'ORBEON' (an external vendor), for developing a webform authoring system and integrated it with GE's Tele ICU solution by creating a persistence layer for storing XML form definitions and content, and exposed Apache CXF restful web services for retrieving, authoring and documenting clinical data, working across layers of the Service Oriented Architecture

• Created automated tests with a coverage of 80% and combined coverage reports with build scripts

• Employed load runner and network simulator for benchmarking performance

• Learnt install-4j and delivered an installer during release. Reduced artefacts and brought build time down by 70%

Design Engineer, General Electric Company, Bangalore, India   Apr, 2012 - May, 2013

• Leveraged Ext-JS, Restful services on Play Framework, Derby-DB and HTML 5, to deliver a cockpit for remotely and electronically viewing ICU patient data, across multiple hospital locations, adopting Agile methodology for task execution

• Incorporated web-sockets and high-charts library in application, for sending real time notifications and graphically representing vitals

• Participated in hospital visits and shared workflow knowledge with team. Organized and structured UI code to follow MVC pattern

Associate Software Engineer, Accenture Services Private Limited, Bangalore, India   Aug, 2011 - Apr, 2012

• Underwent Greenfield training in SAP Materials Management

COURSES

Foundations of Artificial Intelligence, Analysis of Algorithms

• Solved n + k queen's problem using simulated annealing and other AI search algorithms for dynamic board sizes using Python

• Implemented time controlled, adversarial search minimax algorithm for obtaining maximum clusters, in a bubble shooter game

• Designed LEXER, parser, a knowledge base and implemented resolution algorithm for creating an inference engine in first order logic

Certified for completion of Machine Learning online course offered by Stanford University, through Coursera

PROJECTS

• Developed a J2ME mobile application for textual streaming of cricket scores, on any java based handheld device
• Designed Photo Gallery Content Management system for uploading, prioritizing and sequencing images using Ruby on Rails
• Developed a Visual Basic application for reporting, viewing and statistically analysing safety incidents (near misses)

ACHIEVEMENTS

• Received CTO Award for Customer Focus and Collaboration, at GE Healthcare

• Won GE Global Hackathon contest for creating a machine learning trained application for classifying "Depth of Sedation"

• Won GE India Hackathon for developing a cloud based application for predicting diseases based on patient symptoms

• Awarded with gold medal as best outgoing graduate student of our college, in 2011 by Tata Consultancy Services

• Awarded at International Conference on Technology Trends for authoring paper on "Mobile Application for Live Cricket Information"