Ashish Rana

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EXPERIENCE

GE Healthcare

Product Lifecycle Management Development Team, Bengaluru

Software Engineering Intern, GE Digital

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github.com/ashishrana160796

- ReST Web-Services: Implemented ReST web-services from legacy SOAP with microservices compatible concept.
 SSO SAML Authentication: Resolved logout and reauthentication issues, increased the use case coverage.
- o Static Tool Analysis: POC case study w/ multiple tools and Enterprise scale solutions designed, github contributions.
- UI Enchancements: Dialog box help designed and implemented with custom library compatible code, reduces user effort.
- Functional Learnings: Business understanding, international team interactions, gap analysis, stretch assignments.

Selected Projects

- CheckerFramework, Contributor: 2500+ lines of code committed, for jdk annotations. Created prototype type system for determinism in code. Minor contributions, other tools and case study done for Enterprise applications.
- Optimization Algorithm GUI: Convergence calculations for multidimensional fitness functions. Algorithms available like DE, GA, PSO, Random Walk. Extra comparative python implementation for efficiency comparison.
- TreasureHunt Game App: Uses Zbar library for QR code scanning ability. Puzzle editability in admin mode available.
- Aimacode, Contributor: Contributing AI pseudocode algorithms. Specification Issues raised for aima/java.
- Markov Chain Music Generator: Music generation of Indian classical music with finite visible markov chains w/ mido.
- Deep Vision Tool: Final Year Project, In Progress:
 - o Chatbot Module: NLP Chatbot with decision flows, personality. Use cases: troubleshooting problems, recruiting.
 - Object Classification Module: CNN trained, used for product and brand identification, similar suggestions from DB.
 - Activity Classification Module: RNN trained, applied for visual aid with auto-recite submodule in it.
 - o Depth Analysis Module: CNN trained for relative depth estimation. For use cases like visual aid, image depth map.

EDUCATION

Thapar Institute of Engineering and Technology

Computer Engineering, CGPA: 9.42

Patiala, Punjab 2015 – Present

Army Public School
12th, Percent: 91.00

Meerut Cantt, U.P 2013 - 2014

Army Public School
10th, Percent: 93.10

Jalandhar Cantt, Punjab

2011 - 2012

SKILLS

• Languages: Java(Proficient), Python, R, Shell Scripting, C, C++, SQL, PL/SQL, JS, jQuery, MatLab, UML, ARM, Verilog, 8085, 8086, Arduino, Technologies: Static Analysis Tools, SAML, SiteMinder, Tensorflow, NetworkX, nltk, Tkinter, Git, Linux, Jekyll, Adobe Suite, Microsoft Suite

Courses

• In Progress: Deep Learning, Blockchain and Industrial Use Cases, Mathematical Puzzles, Compilers Elective: AI, ML, NLP, Data Analytics, Social Networks, Search Methods in AI, Cloud Computing, Core: Image Processing, Advanced Data Structure And Algorithms, Software Engineering, Information Management, Numerical Analysis, Optimizations, Discrete Mathematics, Networking, OS, TOC, Computer Architecture, Microprocessors, Embedded Systems

Co-curriculars

- OWASP: Design Head, leadership for producing sophisticated and professional designs on Photoshop suite.
- MARS(Robotics Society): Core Team, Conducting workshops on maze-solvers, Arduino.
- Scimatics: Mentor, Design Head Conducting workshops on Java, C++, Arduino, graphic design. Mentoring juniors and Event management.
- Voluntary Experience: Destitute homes and Orphanage visits, Blood donor and Charity participation in college.
- Academics: Gold Medalist: Social Network(NPTEL-Course), Gold Medalist: First Year(Branch), Gold Medalist: School IMO