Anish Badri R S

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Codeforces: anishbadri

EXPERIENCE

Google India Pvt Ltd — Bangalore, KA
Software Developer Intern — *May 2019 - Jul 2019*
- Worked in Google Apps team to create a bridge between Index Pagination and Token Pagination for the list users API call, making time taken per call independent of the number of users. This resulted in the reduction of upper-bound to 3s per call from the earlier upper-bound of 12s.
- Worked with technologies such as Cloud Spanner and Protocol Buffers

Freshworks Inc — Chennai, TN
Software Developer Intern — *May 2018 - Jul 2018*
- Integrated the flagship product of Freshworks(Freshdesk) with third party applications using Freshworks SDK running on NodeJS

EDUCATION

SSN College of Engineering — Chennai, TN
Bachelor of Engineering in Computer Science & Engineering; CGPA: 7.68/10.0 — *Aug. 2016 – May. 2020*

PROJECTS & RESEARCH PAPERS

- **Command Line Tools for Codeforces** ☒: Built multiple command line tools to perform functions such as problem recommendation, downloading sample input & output, fetch unsolved virtual contest list and recent list of problems solved for the online judge, Codeforces. The tools were built on Python3 using BeautifulSoup and Codeforces API.
- **Boolean Satisfiability(SAT) Solver** ☒: Devised an application to determine if there exists an assignment of variables that satisfies a given Boolean formula. The CNF formula is formed using Tseytin transformation and is solved using the DPLL algorithm with optimizations such as 2SAT and HORNSAT.
- **Bounded Model Checking of MFOTL properties (preprint** ☒**)**: Specification and verification of infinite state space systems using a language which has Monadic First-Order (MFO) sentences. The MFO sentences return a bound which can be used to restrict the state space of the input system, thereby making the verification problem decidable.

CERTIFICATIONS

- **Design and Analysis of Algorithms** ☒: Overall Exam Score: 81%; Top 5% In the Nation
- **Model Checking** ☒: Overall Exam Score: 84%
- **Programming, Data Structures & Algorithm using Python** ☒: Overall Exam Score: 81%

TECHNICAL STRENGTHS

- **Programming Languages & Technologies**
  - **Advanced:** C++, C
  - **Basic:** Python, Java, Linux Shell Script, Git, REST, SQL, NuSMV, Arduino, Z3, Android Studio
- **Skills**
  - Data Structures, Algorithms, Propositional Logic, Model Checking, Boolean SATisfiability

ACHIEVEMENTS

- **ACM ICPC 2017**: Member of team Code_Overload which ranked 51st in Kharagpur Regional Contest ☒
- **ACM Provincial 2017**: Member of team Code_Overload which ranked 4th in Chennai Regional Contest ☒
- **Technical Symposiums**: Have participated and won in technical events(programming contests, reverse coding, capture the flag) held at various inter-college symposiums
- **INOI 2016**: Qualified for Indian National Olympiad in Informatics by clearing Zonal Informatics Olympiad (2016)
- **Other:**
  - Qualified for Elimination round of Codechef's Snackdown 2017
  - Qualified for Round 2 of Google CodeJam 2018
  - Qualified for Round 2 of Facebook Hackercup 2018 & 2019
  - Finalist of Smart India Hackathon 2018 as a member of the team 'Tandem Felix'
  - Won 1st place in the eXLog intra-state math quiz conducted by SSN College of Engineering