Anish Badri R S

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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

- **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: 7.680/10.0 — *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