




VAMSI KRISHNA REDDY SATTI

Résumé - January 2024

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| WORK EXPERIENCES | <div> Samsung Electronics (HQ), South Korea (Onsite) <i>Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team</i></div> <div>Language — Java, Kotlin Tools — Spring, Mockito, GitHub Actions, Docker, Kubernetes</div> <div><ul style="list-style-type: none">- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices <i>via</i> voice.- Involves development of microservice to search and execute target devices from NLP-tagged voice query.- Experience with handling large code involving new features, unit tests, bug fixes, deployments <i>etc.</i> with broad experience on complete lifecycle of projects with backend services from ideation to deployment.- Developer for the Bixby Home Platform — primarily involved with the backend code and infrastructure.- Lead developer for device-search microservice on Bixby Home Platform, with fuzzy & advanced search.- Core developer on new <i>upcoming</i> features with work on backend microservices with graph databases.- Received <u>EX (Excellent - 100%) grade</u> in 2022 annual work review, limited to less than 10% of employees.- Cleared both NLP and Computer Vision (Advanced) within Samsung's internal AI certification program.- Achieved <u>S/W Professional Level</u> and <u>Data Science Level 2</u> internal certifications with monetary benefit.</div> <div><div>Samsung Electronics (HQ), South Korea (Onsite) <i>Software Engineer Intern</i> May 2019 — Jul 2019</div><div>Ubisoft Entertainment, India (Onsite) <i>Game Developer Intern</i> May 2018 — Jul 2018</div></div> | Oct 2020 — Present (Software Engineer) | |
| EDUCATION | <div> Indian Institute of Technology (IIT) Bombay, India (Onsite) <i>B.Tech. in Computer Science and Engineering CGPA: 9.13 / 10</i></div> <div>Competitive Programming — C++ Machine / Deep Learning — Python, NumPy, PyTorch</div> <div><ul style="list-style-type: none">- Teaching Assistant (TA) in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018.- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain- 10/10 in programming component of all Computer Science courses I had taken during my entire study.- 10/10 in Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, Computer Logic</div> | Aug 2016 — Nov 2019 (Early Graduate) | |
| GITHUB REPOSITORIES | Screen Translator (32★) — Android App built with Kotlin, modern Jetpack tools and Compose UI ~ <i>active</i> Algorithm Library — Collection of my algorithm implementations in Kotlin for coding competitions ~ <i>active</i> Project ZEN — My website of knowledge across software development (auto-deployed with CI/CD) ~ <i>active</i> Reinforcement Learning — UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP 2019 AI & Machine Learning — ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search <i>etc.</i> 2019 pix2pix: Image-to-Image Translation — paper by Phillip Isola <i>et al.</i> implemented using PyTorch 2019 Compilers — Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019 Database Systems — SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018 Computer Networks — Implemented Spanning Tree Protocol, SimpleFTP using sockets <i>etc.</i> 2018 Computer Graphics — A tiny music-box animation rendered and created wholly using OpenGL 2018 Railway Signal Controller — First experience with hardware languages (VHDL) over FPGA board 2018 Image Quilting: Texture Synthesis — paper by Alexei A. Efros <i>et al.</i> implemented using MATLAB 2018 Image Processing & Editing Tool — Spatial image processing like blur, histogram equalization <i>etc.</i> 2017 Eclipse OJ — First experience on development of full-stack Django web application and UI 2017 Othello Game — First experience on rapid development using docs of a new <i>lisp-like</i> language 2017 | | |
| COMPETITIVE PROGRAMMING | <div> ICPC — Rank 27 - 2020 Amritapuri (Online) Rank 11 - 2020 Kharagpur (Online) Rank 70 - 2019 Amritapuri Rank 36 - 2018 Amritapuri Rank 18 - 2018 Chennai</div> <div>Google Codejam — 2022 Round 1C - Rank 603 Google Foobar — Finished all 5 levels in 2018</div> <div>Google Kickstart — 2022 Round C - Rank 62 2022 Round A - Rank 155 2021 Round H - Rank 57 2021 Round G - Rank 83 2020 Round F - Rank 386 2019 Round G - Rank 159 2019 Round F - Rank 79 2019 Round E - Rank 75 2018 Round A - Rank 151</div> <div>Meta HackerCup — 2023 Round 1 - Rank 467 2022 Round 2 - Rank 1232 2021 Round 2 - Rank 1690 2019 Round 2 - Rank 836 2018 Round 2 - Rank 967</div> <div>Project Euler — Rank 2266 (top 0.21%), by solving 219 challenging mathematics + algorithm problems</div> <div>Codeforces — Rating 2053 <i>max.</i> (Candidate Master) — Best ranks include 16, 77, 81 in Div 2 contests</div> <div>Codechef — Rank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55 SnackDown 2021 Round 1A - Rank 63 DS & Algorithms (Advanced) Certified 2020</div> | | |
| ACHIEVEMENTS | <div>IIT-JEE Advanced — Rank 20 across all of India among 1.2 million examinees for admission into IITs 2016</div> <div>NEST — Rank 2 across all of India, the test for science university admissions (IISERs) 2016</div> <div>AP-EAMCET — Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India 2016</div> <div>TS-EAMCET — Rank 10, the test for university admissions by Govt. of Telangana, India 2016</div> <div>KVPY Fellowship — Rank 26, by DST, Ministry of Science and Technology, Government of India 2014</div> <div>NTSE Scholarship — Rank 158, by NCERT, Ministry of Education, Government of India 2012</div> | | |
| LANGUAGES | Trilingual — తెలుగు, English, हिन्दी Beginner — 한국어 TOPIK Level 2 (¹⁹¹ / ₂₀₀) CITIZENSHIP — India | | |