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WORK EXPERIENCES	<div><div></div><div><b>Samsung Electronics (HQ), South Korea (Onsite)</b> <i>Mobile eXperience (MX) Division - Artificial Intelligence (AI) Team</i> Oct 2020 – Present (Software Engineer) Language – Java, Kotlin   Tools – Spring, Mockito, GitHub Actions, Docker, Kubernetes - Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices via 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 etc. - 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 &amp; advanced search. - Received EX (Excellent - 100%) grade in 2022 annual work review, limited to less than 10% of employees. - Cleared AI Academy's Computer Vision (Advanced), within Samsung's internal AI certification program - Achieved <u>S/W Professional Level</u> internal coding certification and received additional monetary benefit.</div></div> <div><div><b>Samsung Electronics (HQ), South Korea (Onsite)</b></div><div><i>Software Engineer Intern</i> May 2019 – Jul 2019</div></div> <div><div><b>Ubisoft Entertainment, India (Onsite)</b></div><div><i>Game Developer Intern</i> May 2018 – Jul 2018</div></div>		
EDUCATION	<div><div></div><div><b>Indian Institute of Technology (IIT) Bombay, India (Onsite)</b> <i>B.Tech. in Computer Science and Engineering</i>   CGPA: 9.13 / 10 Aug 2016 – Nov 2019 (Early Graduate) Competitive Programming – C++   Machine / Deep Learning – Python, NumPy, PyTorch - 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></div>		
GITHUB REPOSITORIES	<div><b>Algorithm Library</b>   Collection of my algorithm implementations in Kotlin for coding competitions ~ active</div> <div><b>Screen Translator</b>   Android App built on Kotlin and modern Jetpack tools including Compose UI ~ active</div> <div><b>Project ZEN</b>   My website of knowledge across software development (auto-deployed with CI/CD) ~ active</div> <div><b>Reinforcement Learning</b>   - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP 2019</div> <div><b>AI &amp; Machine Learning</b>   - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc. 2019</div> <div><b>pix2pix: Image-to-Image Translation</b>   - paper by Phillip Isola et al. implemented using PyTorch 2019</div> <div><b>Compilers</b>   - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019</div> <div><b>Database Systems</b>   - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018</div> <div><b>Computer Networks</b>   - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc. 2018</div> <div><b>Computer Graphics</b>   - A tiny music-box animation rendered and created wholly using OpenGL 2018</div> <div><b>Railway Signal Controller</b>   - First experience with hardware languages (VHDL) over FPGA board 2018</div> <div><b>Image Quilting: Texture Synthesis</b>   - paper by Alexei A. Efros et al. implemented using MATLAB 2018</div> <div><b>Image Processing &amp; Editing Tool</b>   - Spatial image processing like blur, histogram equalization etc. 2017</div> <div><b>Eclipse OJ</b>   - First experience on development of full-stack Django web application and UI 2017</div> <div><b>Othello Game</b>   - First experience on rapid development using docs of a new <i>lisp-like</i> language 2017</div>		
COMPETITIVE PROGRAMMING	<div><div></div><div><b>ICPC</b> Rank 27 - 2020 Amritapuri (Online)   Rank 11 - 2020 Kharagpur (Online) Rank 70 - 2019 Amritapuri   Rank 36 - 2018 Amritapuri   Rank 18 - 2018 Chennai</div></div> <div><div><b>Google Codejam</b></div><div>2022 Round 1C - Rank 603</div></div> <div><div><b>Google Kickstart</b></div><div>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> <div><div><b>FB Hacker Cup</b></div><div>2021 Round 1 - Rank 700   2019 Round 2 - Rank 836   2018 Round 2 - Rank 967</div></div> <div><div><b>Project Euler</b></div><div>Rank 2200 (top 0.21%), by solving 216 challenging mathematics + algorithm problems</div></div> <div><div><b>Codeforces</b></div><div>Rating 2053 max. (Candidate Master) – Best ranks include 16, 77, 81 in Div 2 contests</div></div> <div><div><b>Codechef</b></div><div>Rank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55 SnackDown 2021 Round 1A - Rank 63   DS &amp; Algorithms (Advanced) Certified 2020</div></div>		
ACHIEVEMENTS	<div><div><b>IIT-JEE Advanced</b></div><div>Rank 20 across all of India among 1.2 million examinees for admission into IITs 2016</div></div> <div><div><b>NEST</b></div><div>Rank 2 across all of India, the test for science university admissions (IISERs) 2016</div></div> <div><div><b>AP-EAMCET</b></div><div>Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India 2016</div></div> <div><div><b>TS-EAMCET</b></div><div>Rank 10, the test for university admissions by Govt. of Telangana, India 2016</div></div> <div><div><b>KVPY Fellowship</b></div><div>Rank 26, by DST, Ministry of Science and Technology, Government of India 2014</div></div> <div><div><b>NTSE Scholarship</b></div><div>Rank 158, by NCERT, Ministry of Education, Government of India 2012</div></div>		
LANGUAGES	<div>Trilingual – తెలుగు, English, हिन्दी   Beginner – 한국어 TOPIK Level 2 (191/200)</div> <div>CITIZENSHIP India</div>		