

Arjun Krishna

Software Engineer Amazon |

Ex-Adobe | IIT Roorkee `19

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Summary:

Through my projects and 5+ years of software work experience, I was able to familiarize myself how to design and implement scalable distributed cloud solutions. I am also experienced with building multithreaded performant ML software workflows in production with latencies in order of milliseconds. I am also familiar with SOLID design principles, data structures, system design and test-driven CI/CD development to provide end to end solutions. I would love to work with companies working on challenging products and ideas.

Experience:

Duration (mm/dd/yyyy)	Role	Organization	Description
12/20/2021 - Present	Software Developer 2	Amazon Web Services Pvt. Ltd. 2100 University Ave, East Palo Alto, CA 94303	Built entire control plane and data plane stack of AWS Aurora MySQL infrastructure for Tokyo region and lead 5-person team who delivered on automating the same. My primary focus in this team revolves around the test, deployment and new region build infrastructure of AWS Aurora MySQL .
08/10/2020 - 12/20/2021 (1 yr 5 months)	Software Developer 2	Amazon Web Services India Pvt. Ltd. Aquila Building, BCBP Ground, Mahadevpura, Bengaluru, Karnataka 560048	Worked on the fault tolerance aspects of AWS Aurora MySQL which is a fully managed cloud native SQL database service. My primary contributions revolved around Defunct segment handling, Dead latch diagnostics, Page diagnostics, Out of memory avoidance and Fault injection features for Aurora MySQL 8.0 engine .
06/18/2019 - 08/10/2020 (1 yr 3 months)	Software Developer 1	Adobe Systems India Pvt. Limited I- 1 A, City Centre Sector - 25A, Noida, UP, 201301	Developed Genshop which is Adobe's in-house deep learning python library for Generative models primarily GANs. Worked on CPU (multithreaded) and GPU workflows of Adobe Color Engine (ACE), Modular Parsing System (MPS) and Adobe font technology which are core libraries shared across all Adobe products.
05/07/2018 - 07/26/2018 (3 months)	Research Intern	Adobe Systems India Pvt. Limited I- 1 A, City Centre Sector - 25A, Noida, UP, 201301	Interned with Big Data Experience Lab, Adobe Research, Bengaluru on the project personalized highlighting based on reader feedback.
12/01/2017 - 01/31/2018 (2 months)	Research Assistant	Indian Institute of Technology, Roorkee Roorkee - Haridwar Highway, Roorkee, UP, 247667	Researched on action recognition with feature fusion which involved combining traditional computer vision techniques with deep learning to improve the accuracy of action recognition.

Education:

Duration (mm/dd/yyyy)	Degree	Institution	Percentage
07/01/2015 - 07/18/2015 (4 years)	B. Tech. Major in Electronics and Communication Engineering with Minors in Computer Science Engineering	Indian Institute of Technology, Roorkee Roorkee - Haridwar Highway, Roorkee, UP, 247667	93.86%
07/01/2013 - 05/25/2015 (2 years)	Senior high school (11th and 12th Grade) Physics, Chemistry, Mathematics Biology, English	Bharatiya Vidya Bhavan Bhavans Hill Villikal Kottakunnumal Road Chevayur, Kozhikode, Kerala 673017	97%
07/01/2012 - 05/26/2013 (1 year)	High school (10th Grade) English, Hindi, Mathematics, Science, Social Science	Bharatiya Vidya Bhavan Bhavans Hill Villikal Kottakunnumal Road Chevayur, Kozhikode, Kerala 673017	100%

Certifications:

Title	Institution	Platform	Percentage
Machine Learning	Stanford	Coursera	97.6%
Applied AI with Deep Learning	IBM	Coursera	99.2%
Fundamentals of Scalable Data Science	IBM	Coursera	97.7%
Advanced Machine Learning and Signal Processing	IBM	Coursera	97.7%

Skills:

- *Backend Programming:* Java, C++, Python, C, Objective C
- *Frontend Programming:* JavaScript, TypeScript, Ruby
- *Databases:* MySQL, Postgres, DynamoDB, Mongo DB, Apache RDD, Indexed DB
- *Frameworks:* Pytorch, TensorFlow, SparkML, React.js, Node.js, Flask, Android SDK, DirectX12, Metal, Microsoft SDK, Emscripten, AWS SDK
- *Developer tools:* Git, Perforce, Visual Studio, Android Studio, XCode, PyCharm, IntelliJ
- *Consoles:* Linux, AWS, Windows, Mac

Personal Projects:

Title	Description	Technology stack
Express Flowchart	An android app (with 100+ downloads) that helps users quickly create flowcharts UMLs and mind maps.	Java, Android SDK
Express Wiki	A website that gives you a personal online Wikipedia powered by AI so you can read and organize your Wikipedia.	React, MongoDB, NodeJS, JavaScript, AWS, Python
Intelligent Font Search	A tool which applies combination of NLP and Deep Learning to facilitate natural language complex query for font search.	Python, Pytorch, React, Flask, AWS
Video segment copy detection	In this B. Tech. thesis work of mine, I have tried to introduce a video hashing method for scalable video segment copy detection to prevent proliferation of toxic and illegal copies of videos online.	Python, Pytorch, Flask

For more of my work and open-source contributions please head over to my [website](#)

Achievements:

- Won Aurora hackathon 2021 for developing novel prefetch algorithm for data read ahead for [Aurora MySQL 8.0 engine](#).
- Won prestigious kudos award 2020 for my contributions at CoreTech Adobe among team of 100+ builders.
- Winner Adobe shark tank event for best product idea pitch amongst 100+ new hires.
- Best B.Tech. Project Award received from director IIT Roorkee amongst 1816 students.
- KVPY National Scholarship 2015 Fellow ~1,50,000 high school candidates.
- District topper of AISSCE (All India Senior School Certificate Examination) 2015 certificate received from education minister India.

Domain Knowledge:

Native AWS (NAWS) cloud development, Test automation infrastructure, Cloud deployment infrastructure, Big data analysis, Machine learning, Storage scalability, System design, Web development, Computer vision, Natural language processing, Android development, Image processing

References:

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