

Arjoonn Sharma

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arjoonn.com github.com/thesage21 gitlab.com/thesage21 [Twitter/arjoonn1](https://twitter.com/arjoonn1) [Linkedin/in/arjoonn](https://linkedin.com/in/arjoonn)

Education & Employment	Notable (tasks/achievements)
Midpath software Sept 2022 - current	<ul style="list-style-type: none">- Director / Software Engineer<ul style="list-style-type: none">- Built an offline first learning management platform for young children.- An offline first CI/CD system based on docker for micro projects that don't even reach github/gitea.- A platform for efficient distribution and re-distribution of covid vaccines based on available dosage in each clinic in a city and demand in each clinic.- Donations backend for yultimate.org and app.yultimate.org (django, postgres, Linode)- Worked with smaac.in on multiple projects including webapp.smaac.in (vue, htmx, django, flask, ms-sql, e2e cloud, S3, next.js, gitlab.com)- Worked with Resonanz group on Quicktrials.com (Django, postgres, GCP)- Extensive work with docker and self hosted infrastructure (glitchtip, dozzle, grafana, victoria metrics, uptime monitoring)
Instabase.com Sept 2021 -Sept 2022	<ul style="list-style-type: none">- Solutions engineer (remote)<ul style="list-style-type: none">- Architecture and implementation of SDLC process at the solution engineering organization.- Building solutions for automated document processing at CITIbank, Royal Bank of Canada, MUFG Investors.- Anchor based value extraction from documents that improved extraction performance by 10-15% on average.- Document clustering across multiple projects and document types in a library restricted environment.- Built tooling to help soleng be more effective on their solutions.- Model building for document understanding based on BERT/DETR.
Smaac Net Solutions Pvt. Ltd Mar 2021 -Sept 2021	<ul style="list-style-type: none">- Senior software consultant (remote)<ul style="list-style-type: none">- Architect of web ERP system- Migration of codebase from VB .NET to Python + Vue.js technology stack- Security updates for the application using modern security practices- Training / Hiring<ul style="list-style-type: none">- Trained existing employees in python, vue, web development, database management, and RDBMS normalization techniques.- Helped the firm introduce modern test based hiring practices and reduce it's attrition rate.- Introduced the firm to CI/CD practices and helped them set up their first testing pipelines.
Premiere Digital Services Oct 2019 - Feb 2021	<ul style="list-style-type: none">- Software Engineer (remote)<ul style="list-style-type: none">- Worked as a SE on a website built with flask, sqlalchemy, postgresql, redis, nginx, aws, elasticsearch, and fabric.- We work in a fast iteration setup with practices from agile- Wrote the bug fixing flow documentation for the product.- Managed bug triage during IST work hours.- Built several core features for the website including the notifications system for example.- Improved page response times by optimizing bottlenecks in template rendering functions.- PyJaipur volunteer and meetup organizer<ul style="list-style-type: none">- Organize monthly meetups, community calls

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	<ul style="list-style-type: none">- Contribute to community software and maintain PyJaipur website.- India Linux Users Group Delhi volunteer and occasional speaker (link)
IIITM-Kerala CUSAT July 2019 - Nov 2019	<ul style="list-style-type: none">- Visiting faculty AI and knowledge representation (link)<ul style="list-style-type: none">- The course was managed over gitlab- Used CI to automate assignment testing- Software training: Git + gitlab for the first year MSc students.
CLAP Research May 2017 - Oct 2019	<ul style="list-style-type: none">- Principal engineer<ul style="list-style-type: none">- Lead a team of 7 on the project to launch the first version of the product called Voody. (link)- Lead the team to build the first document tagging system in the company. (link)- Research engineer on closed domain search system<ul style="list-style-type: none">- Built API service using bottle, nginx, mysql, mongodb, pytorch, and tensorflow.- Developed the first document question-answer system in the company, leading to the first beta of the product.- Developed an automated plug-and-play website helper chat bot without the need for the site to expose its APIs.- Handled DevOps<ul style="list-style-type: none">- Built CT system with gitlab, pytest, and docker- Built CD system with gitlab, docker- Formulated the development cycle and improved feature development speed.- Built the interview management website for the company.- Signal & Noise: Talk, CET (Fb dev circles)- Panelist, Ethics in AI, Dhyuthi (IEEE event) (link)- Won Huddle Kerala (All India startup pitch)- NASSCOM emerge 50 winners (link)- Singularity University talk about Random Forests (link)- Challenges in NLP: Talk, (Fb dev circles)- Workshop on ML in NIT-Calicut
Dept of IT & Comm - Govt of Rajasthan Aug 2017 - Feb 2018	<ul style="list-style-type: none">- Built API server + phoneGap app for Aanganwaadi project- Lead dev on 2 person team for project
Ernst & Young Jan 2017 - Apr 2017	<ul style="list-style-type: none">- Advanced data analytics intern doing Monte Carlo based mutual fund inflation rate calculation- Increasing sample efficiency of classic Q learning system as MSc project- Won all India hackathon by Govt of Rajasthan 3/3700 (link)<ul style="list-style-type: none">- Built a website to train your own image classifiers and receive predictions on new data.- Proposed that it may be used to provide expertise to remote villages where actual expert person might not be able to travel.
64 Squares June 2016	<ul style="list-style-type: none">- Built web dashboard for analytics app- Performed data cleaning, deduplication- Participated in Kaggle contest under company supervision
Certifications	<ul style="list-style-type: none">- TOEFL(108/120) exam 16 Feb 2019- GRE(327/340+4/6) exam 31 Dec 2018- NET exam qualified for assistant professor 5 Nov 2017- GATE(483) exam 11 Feb 2017

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MSc. Computational Science IIITM-Kerala (CUSAT) Aug 2015 - Apr 2017	<ul style="list-style-type: none">- First division, university rank 3- Ranked 7 / 3902 in the HackerEarth SigTuple image segmentation challenge. (link)- Kaggle Kernels Expert with a world rank of 39/ 55,000 (link)- Featured on the Kaggle Blog, No free Hunch. (link)- Founded SigML(Special Interest Group, Machine Learning)- Won 3rd prize (project contract worth 7.5 Lakh INR) in all India Rajasthan IT Day Hackathon (link)
BSc. Physical Sciences with computer science St. Stephen's College DU July 2012 - May 2015	<ul style="list-style-type: none">- First division- Received All India Scholarship for Higher Education (INSPIRE - Department of Science and Technology Govt of India) for all 3 years of BSc. This is awarded to students who were ranked within 1 % out of 8,15,000 students who passed the exam that year (2012).- Vikas Dhaka Scholarship awardee.- President of the Web Team<ul style="list-style-type: none">- Built the college website prototype along with a friend which later formed the base for the new website.- Submitted a report on digitizing activities in the college to the principal which was later acted upon.- (Head Programmer) We worked to build the Computer Society from 5 to 32 members in 2 academic years.
DPS Sushant Lok 2009-2012	<ul style="list-style-type: none">- AISSCE, AISSE (CBSE) Exams (School rank 2 in class 12 exams)- AFS All India "India Thailand Student Exchange" member of a team of 16 students from across India.- National CBSE Science Exhibition - All India winner from all schools affiliated to Central Board of Secondary Education (link).- Head boy in class 12 and Vice head boy in class 11<ul style="list-style-type: none">- Formulated the student council structure during that time.

References of the following professors can be made available.

- [Dr Rajashree MS](#) Vice Chancellor APJ Abdul Kalam Technological University
- [Dr Asharaf S](#) Professor IIITM-Kerala
- [Dr T.K. Manoj](#) Professor IIITM-Kerala

Memorable Events/Code/Creations

- Function type signature search <https://github.com/theSage21/sigsearch>
- PyJaipur core member <https://github.com/orgs/PyJaipur/people>
- Reproduction of the Lorentz embeddings paper <https://github.com/theSage21/lorentz-embeddings>
- Author of bottle-tools <https://bottle-tools.readthedocs.io/en/latest/>
- Reproduction of Stochastic Delta Rule https://github.com/theSage21/stochastic_delta_rule
- Recurrent Weighted Average implementation <https://github.com/theSage21/torchzoo/>
- Line laser based 3d point cloud generation <https://github.com/theSage21/3d-scanner>
- Did @dabeaz compilers course <https://www.dabeaz.com/compiler.html>
- Contributed new dataset to Facebook ParlAI <https://github.com/facebookresearch/ParlAI/pull/983>
- OSFY: An overview of AI <https://opensourceforu.com/2017/12/story-behind-pervasive-ai/>
- OSFY: Managing your reading with espeak <https://opensourceforu.com/2016/06/bookread-software-reads-books-aloud/>
- OSFY: Open Judge <https://opensourceforu.com/2015/11/openjudge-an-online-judge-for-offline-programming-contests/>
- OSFY: Converting plaintext to handwriting <https://opensourceforu.com/2016/11/converting-plain-text-handwritten/>
- OSFY: Coding in indic languages <https://opensourceforu.com/2015/09/pytongue-programming-in-non-english-languages/>