

# SHUBHAM ARORA

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## EDUCATION

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### Boston University

MS in Computer Engineering

Courses: Distributed Systems, Cloud Computing, Parallel Programming

Robot Learning for Navigation

Boston, MA

Sep. 2019 - Jan. 2021

### Netaji Subhas Institute Of Technology, University Of Delhi

BE in Computer Engineering

Courses: Data Structures and Algorithms, Operating Systems, Computer Architecture

Delhi, IND

Aug. 2013 - Jun. 2017

## EXPERIENCE

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### Dhwani Podcasts

Founder

Vancouver, BC, Canada

Jan 2025 - Now

- Created a AI first podcast platform: dhwani.io
- Backend is a multi-process architecture in python with fastapi web servers, and daemon services
- Created a queue based async transcription service, with post processing cleaning using LLM
- Frontend made using standard web technologies and Mithril.js as web framework. Also React.js. Deployed on Vercel.
- Social share previews using Cloudflare workers to detect bot traffic and route to specific endpoints

### Amazon Web Services

Software Development Engineer - II

Santa Clara, CA, USA

Apr 2021 - Aug 2024

- Founding team of SageMaker Profiler and HyperPod products, accelerating LLM training performance for large distributed training
- Developed scripts to setup slurm on a multi-node cluster, setting up network share, slurm configs and user management
- Implemented provisioning and billing for attaching storage to cluster
- Provided hi-touch onboarding support to first few customers, enabling the product and customer to succeed
- Led UI development for SageMaker Profiler, a high performance and low latency profiler for large scale deep learning using mithril.js and canvas APIs

### Arcesium India Pvt.Ltd.

Software Engineer

Hyderabad, IND

July 2017 – July 2019

- Designed and developed business features for D.E. Shaw's expense management and reporting system
- Developed and maintained web services to create and manage business reports, using Java and a SQL server database
- Led project planning, development and deployment for critical projects, spearheading discussions with clients and stakeholders
- Created rich User Interfaces in ReactJS. Developed custom form processing and grid editing features
- Led the transition of the Web UI stack from vanilla Javascript to ReactJS
- Ported business logic from SQL procedures to Java services and improved client productivity by reducing process turnaround time from 10 mins to 30 sec
- Deprecated Flash based web pages, and created new UIs in HTML, Javascript

## PROJECTS

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### Boston University

Fault tolerant distributed key value store

Boston, MA

Feb. 2019 – May 2020

- Implemented a fault tolerant key value store using the RAFT consensus protocol, in Go
- The key-value service is a replicated state machine, can tolerate failures of a minority of nodes
- Implemented Get, Put primitives using RPC's

## TECHNICAL STRENGTHS

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### Languages

Python, Javascript, Bash, C++, Typescript

### Other

AI, Linux, AWS, Git, Slurm, Deep Learning