ARUSHEE GARG

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SUMMARY

Experienced backend software engineer and technical lead with a 7+ year track record of delivering high-impact solutions, currently working at LinkedIn. Expertise in building scalable systems and AI-driven features that drive user engagement and business growth. Currently focused on developing agentic applications that leverage LLMs for adaptive user experiences. Adept at mentoring engineers and fostering inclusive teams, advocating for women in tech through initiatives like TechWomen.

WORK EXPERIENCE

Senior Software Engineer, LinkedIn │ *Sunnyvale, CA*   **Jan 2020 - Present**

Skills: Java, Python, genAI, LLM, gRPC, GraphQL, Rest APIs, Samza, Kafka, Hadoop, Spark, Azure, SQL, Big Data, Scala

- **Tech Lead for the development of AI-powered company insights**, leveraging generative AI and LLMs to provide users with valuable data on company trends and competitor analysis, serving a QPS for **350** across all colos, team of 5 engs. Expanded talent company insights feature to include non-US headquartered companies, resulting **1.6X** increase in impressions.
- As **DRI (Directly responsible individual)**, implemented 'Actively Hiring' search filter with 5 engineers, resulting in a **15%** adoption rate for retention. Worked on search infrastructure, processed data and constructed robust data pipelines through offline and nearline jobs, transforming job seekers' experience to enhance their hearing back success rates.
- Developed member **intent-based dynamic upsells**, to promote premium offerings, driving platform monetization. Created **feature access** through entitlements for different feature offering across multiple business SKUs driving acquisition.
- Built **resume builder and optimization framework,** where members can create custom resume based on their profile, upload resume media and get keyword insights for the desired job roles, with ~10K resume creates and ~15K resume upload daily.
- **Lead Backend Bootcamp mentor** for cohort of 11 New Joinees in July 2024. Mentored new grad, incoming engineers, and intern.

Software Engineer, Yourmechanic*(acquired)*│ *MountainView, CA*   **July 2018 - Dec 2019**

Skills: Full Stack Development, Ruby on Rails, React, Redux, MVC, AngularJS, PostgreSQL, Agile, Unit Testing

- **Delivered critical fleet management features** for major car rental clients (Hertz, etc.), including booking, invoicing, notifications.
- **Architected and built core systems** such as an audit engine, CRM integration and an on-demand service system, refactoring code to enhance scalability and performance.

Software Developer Intern, Google Summer of Code 2017 │ *Remote*   **May 2017 - Aug 2017**

- **Urban Energy Systems Laboratory, Empa NEST, Switzerland :** Developed an open-source interactive visualization dashboard for IoT sensor data in renewable energy monitoring showcasing real-time and trend data. Utilized Node-RED, Highcharts JavaScript, and database connections to Microsoft SQL and OPC UA server.

Software Developer Intern, Microchip │ *Sunnyvale, CA*   **May 2017 - Aug 2017**

- Developed a Python-based CLI tool for the customer sustenance team to parse and analyze Minecraft-Controller logs, automating error detection and visualization, and saving approximately 120 engineering hours per month

PROJECTS

Distributional Alignment of Language Models with Representation Steering │ *Stanford CS329H (github)*   **Dec 2024**

Explored and validated representation steering methods for aligning language models, outperforming prompt-based baselines for SLMs. Demonstrated the efficacy of low-rank adaptation, representation finetuning, and difference-in-means steering vectors in capturing nuanced human preferences. Analysis confirms generalization of learned steering vectors in open-ended generation tasks.

Agentic System for Hyper-Personalized Audio Digest│ *Linkedin Hackweek 25*   **Jan 2025**

Developed an agentic system for hyper-personalized audio digest and suggested next best actions for insights with mentorship from a Distinguished Engineer, selected for poster presentation at Hackweek exhibition and received positive recognition.

EDUCATION

Masters in Computer Science, PURDUE University **May 2018**
USA │ GPA: 3.94 /4 │ Graduate Teaching Assistant

Bachelor of Engineering (Hons), BITS PILANI   **May 2015**
INDIA │ GPA: 3.26 /4 │ Joint Sports Secretary

MENTORSHIP

Review Committee Member | TechWomen USA   **Apr 2022**
Evaluated & selected emerging tech leaders (ELs) from Egypt and Lebanon for the prestigious US embassy's TechWomen program.

Professional Mentor | TechWomen USA   **Apr 2021**
Mentored EL in the tech industry, providing guidance on software development practices and fostering innovation.

CERTIFICATIONS & AWARDS

Speaker: Speaker for session Agentic AI: Concept to Production, audience 5000+│ TechFutures 2025
Courses: CS329H: *Machine Learning with Human Preferences - Stanford University(Grade A)* │ Dec 2024
CS 194/294-196: *LLM Agents* - UC Berkley │ Jan 2025
Statistics for Data Science & Artificial Intelligence, Stanford Continuing Studies │ 2019
Hackathons: Agents and Compound AI systems hackathon, GreenDay LinkedIn Hackathons (3rd prize).
Awards & Honors: All India Rank 203, KVPY Award IISc (Indian Institute of Science) │ 2010
Sports: Captain, Girls Basketball Team, BITS │ 2014
Prev Work Exp: Business Intelligence Engineer at Practo, Healthcare Startup│ India │ 2015-2016