

Varun Jewalikar

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I am a senior software engineer with 15 years of experience - 9+ of them at Amazon (Prime Video) - leading teams / orgs, setting the multi-year vision, shipping production distributed systems scaled to millions of RPS and working across 100+ internal teams as stakeholders. I recently shipped an AI code-migration product that saved years of dev time for 50+ Amazon teams.

EXPERIENCE

Senior Software Development Engineer, Amazon

2017 - 2026 · London, UK

- Bootstrapped the product to automate code migrations for Prime Video (For example - CloudFormation to CDK migration). Designed and built a production LLM-powered code-transform tool - prompt orchestration & re-use, custom tools, context management. Cut time per migration from weeks to a day, saving years of developer time across 50+ teams.
- Led the multi-year architecture, strategy and built the team owning Prime Video's edge routing layer - millions of RPS, >four 9s availability, <1ms average latency, 8 AWS regions, 100+ internal teams as customers. Significant improvements to Prime Video CX and architecture - stateless routing, rule based routing, zero touch automated route changes, scheduled route changes, safe rollouts of routes, regional failover and more.
- Designed and implemented AWSSSMChaosRunner, a chaos testing/fault-injection framework used by 200+ teams internally. I shipped/maintained this as a solo dev with contributions from SDEs across the company. Presented at AWS re:Invent 2020.
- Shipped a DynamoDB global replication system outperforming the native offering - improved uptime from 90% to 99.999% and replication latency.
- Rearchitected the cache eviction layer for Prime Video's location service, cache hit rate went from 80% to 99% saving millions/year in cloud costs.
- Presented popular tech talks twice at DevCon (the annual internal developer conference) and once at TestUnconference.
- Mentored 15+ Amazon engineers across levels. Active interviewer for London SDE loops. Mentor for student outreach programs.
- Authored white papers for the AWS Blog about [chaos testing](#), [Kotlin adoption](#), etc.
- Authored Amazon's official manual for writing technical design documents.

Mentor, Codementor

Aug - Dec 2016 (part time) · London, UK

- Highest rated mentor on the platform for Python/NLP/ML, with hundreds of mentees - professionals and students.

Founding Engineer, Stealth Startup

Apr - Oct 2016 · London, UK

- Designed/implemented the image vectorisation system to detect affiliate products in user images.
- Rearchitected the database layer (90% latency reduction).
- Second engineering hire on a four-person founding team, building an image-based social network for fashion shopping.

Founding Research Engineer and Developer Evangelist, Musixmatch

2014 - 2016 · Bologna, Italy

- First R&D hire. Bootstrapped the research platform for the world's largest lyrics database — timestamp alignment, lyrics-based music recommendation, automated improvements of user-annotated lyrics, etc.
- Published viral data studies featured by news outlets, such as [The Guardian](#). Presented the company at 20+ hackathons across the US and EU.

R&D Engineer Trainee, Yamaha Corporation

Sep - Dec 2013 · Hamamatsu, Japan

- Shipped algorithm from my master's thesis into Yamaha's Vocaloid product. Achieved a 20% improvement in time alignment of data.

Research Intern, Musixmatch

Jun - Aug 2013 · Bologna, Italy

- Prototyped NLP and ML systems to improve lyrics data quality and CX.

Google Summer of Code Intern, Mixxx DJ

May - Aug 2012 · Remote, Spain

- Added key detection, tempo locking and harmonic mixing features to Mixxx, an open-source DJ application written in C++.

Google Summer of Code Intern, BeagleBoard.org Foundation

May - Aug 2010 · Remote, India

- Developed a userland/kernel-level driver for the PWM capabilities of the BeagleBoard single-board computer by Texas Instruments.

EDUCATION

Master's Sound and Music Computing

Universitat Pompeu Fabra · 2011 - 2013 · Barcelona, Spain

Bachelor's Computer Engineering

Delhi College of Engineering · 2006 - 2010 · Delhi, India

SKILLS

Java, Kotlin, AWS, TypeScript, JavaScript, Python, roadmapping, setting team/org charters, postmortems, incident management, prototyping & productionising, career coaching, AI native products, mentoring/onboarding at scale.