

Saumya Borwankar

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EXPERIENCE

Founding Engineer

Aug. 2023 – Present

Videospan, Inc

Chicago, IL

- Architected a multi-platform social media scheduling platform (Instagram, Facebook, Twitter, LinkedIn, YT, TikTok) using OAuth 2.0, FastAPI; scaled to 1000+ concurrent users and drove a 25% increase in sales.
- Achieved 30% increase in time-on-site by designing an event-based system with FastAPI to track task progress.
- Replaced legacy polling with WebSockets, Postgres SQL and implemented advanced caching/invalidations with Typescript, cutting redundant API calls and improving responsiveness at scale (25% latency reduction).
- Built a serverless video processing pipeline with AWS, Python scaling to 10K+ video processing requests while reducing manual editing time by 70% through automatic conversion of long-form to short-form video.
- Leveraged GPT API and vector embeddings to build context-aware AI assistant that analyze video and text data.
- Scaled automated templating engine to 15K+ requests with Next.js, FFmpeg, and LLM dynamic overlay.

Software Development Internship

May 2023 – Aug. 2023

Google

Troy, NY

- Developed C++ utilities to automate parsing of simulation logs improving debugging efficiency.
- Implemented efficient data structures and algorithms using C++ STL to improve system performance.
- Reduced deployment time by 45% by designing GitLab CI/CD workflows for automated container deployment.
- Developed a robust error handling system for assignment processing, enhancing system reliability and debugging.

Software Engineer

Oct. 2020 – July 2022

Sony

Bangalore, India

- Led development of ML-powered subtitle generation system, reducing manual processing costs by \$80K annually.
- Reduced server utilization by 20% by migrating monolithic application to microservices using Python and Docker.
- Conceptualized two highly available, fault-tolerant microservice architectures based on Python, Docker, and AWS.
- Collaborated with an agile team of 4 to develop a dashboard for serving audio and video machine learning models.
- Manipulated workflows to align with marketing, sales, and solutions, improving automation by 15%.

Software Developer

Dec. 2019 – Sept. 2020

Therex Technologies

Bangalore, India

- Engineered real-time GPS tracking system for school bus fleet monitoring with sub-15 second latency using Redis.
- Designed and implemented geospatial mapping service integrating Google Maps API for precise location tracking.
- Architected a mobile admin dashboard with React Native for fleet management and historical route analysis.
- Enabled incident response by integrating geofencing alerts, reducing parent inquiry response time by 40%.

AWARDS

- 1st Rank @ WildHacks Hackathon 2023 among 45 teams for “WildCoin: Cryptocurrency for Offline Transaction”.
- 1st Rank @ HackNight ACM IIT 2023 among 146 participants for “Best performing tank in Battle Royale” RoboCode.
- 1st Rank @ Chicago Innovate 2023 among 18 teams for “GChomp: Grasshopper Chat-GPT alternative”.

TECHNICAL SKILLS

Languages: Typescript, Python, C++ 17, SQL, Java, C#

Frameworks: Next.js, Tanstack, React.js, Redux, RTK Query, Kafka, Docker, Websockets, Redis

Testing: React Testing Library, Playwright, Jest

Database: PostgreSQL, NoSQL, MongoDB, TypeORM

Libraries: Pytorch, Kaldi, FFmpeg, Three.js, D3.js, Chart.js, WaveSurfer.js

AWS Services: CDK, Lambda, EKS, S3, SQS, SNS, Step functions, Cloudfront, RDS, ECS, ELB, EventBridge

EDUCATION

Illinois Institute of Technology

Chicago, IL

Master of Computer Science

Aug. 2022 – May 2024

Nirma University

Gujarat, India

Bachelor of Technology in Electronics

Aug. 2017 – May 2021