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Nitin Ahuja

Summary

- Hands-on engineering leader, experienced with design and development of customer focused, scalable, secure, web-scale, data heavy, mobile and distributed applications.
- Worked extensively with AWS cloud, Docker, Mobile app development, e-commerce, web services, Redis, ELK, MQTT, Kafka, MySQL, NoSQL, ETL, System Architecture, Kubernetes/EKS, CI/CD, Machine Learning, PHP, Java, Python, Javascript, RESTful APIs, Node.js, .NET/C#, analytics, Data pipelines, Spark, video streaming, two-sided marketplaces, PCI compliance.

Work Experience

Jul 2021 – Current   LeoLabs.space   Menlo Park, CA
Sr Director, Engineering

- LeoLabs provides space domain awareness in low earth orbits by building and operating a worldwide network of ground based phased array radars.
- Hired and doubled engineering team to twenty-five, established DevOps, CI/CD, security best practices to scale platform to support a growing number of radars and customers.
- Improved data and processing pipeline to support 200% growth in satellites. Changed data pipeline to Kafka and modified design to speedup processing by 6.5x.
- Moved monolithic services to Kubernetes, improved resource utilization and reduced infrastructure cost.
- Worked with customers like SpaceX and Amazon Kuiper to establish crucial integration environments and added metrics and alerting.

AWS, Java, Python, Redis, Postgres, EMR/Hadoop, Kafka, RabbitMQ, Kubernetes, Terraform, CircleCI.

Feb 2018 – Jul 2021   Filld.com   Mountain View, CA
VP Product & Engineering

- Filld is a mobile fuel delivery and logistics platform and delivers fuel to nationally distributed fleets, consumers, and connected cars.
- Hired and grew engineering team, established development and QA processes, CI/CD pipelines, created product roadmaps, scaled devops, created internal tools, added BI tools for analytics.
- Built and launched a platform to enable multiple fuel suppliers to supply nationally distributed fleets. Architected REST APIs to access platform.
- Built an IoT gateway and platform for fuel truck automation and scaled fueling operations by 3x.
- Simplified UX for consumers to order gas via SMS and Facebook messenger bot with multiple experiments to improve funnel conversion – improved conversion 2.5x with lower CAC.
- Launched Filld's consumer Android and iOS mobile apps. iOS app was featured twice as app of the day.

Java, Python, Node, React Native/Mobile, Redis, MySQL, RabbitMQ, MQTT, Kubernetes, DBT, Redshift, AWS Quicksight, AWS Lambda, Vault, CircleCI, Twilio, Looker

Sep 2017 – Feb 2018   Aeris Inc   San Jose, CA

- Aeris is an IoT and automotive telematics platform provider.
- Led a team of 35 developers across two development centers to build and launch customer facing platforms that allows vehicle owners to subscribe/enable/monitor services for their vehicles via mobile apps.
- Worked closely with vehicle manufacturers, built APIs to provide access to platform services.
- Large microservice based system closely interacted with vehicle telematics to provide real-time control of vehicle functionality – lock/unlock/location/honk/geofencing/curfew/speed restrictions.
- Launched native mobile Android and iOS consumer apps for vehicle owners.

Java, iOS/Android native apps, AWS, Redis, Kafka, RabbitMQ, MQTT, SMS platforms.

Aug 2016 – Sep 2017   Vendini.com San Francisco, CA
Sr. Director Engineering

- Vendini provides a platform for ticketing for venues/stadiums, festivals and live events and processes about $1 billion in yearly transactions. Managed a distributed team of 40 developers.
- Built a series consumer facing sites to allow Vendini to sell tickets via a marketplace. Increased mobile conversion rates by 100% and organic search ranking significantly using structured data.
- Built a data warehouse using Redshift and AWS DMS. Improved reporting consistency and response time by over 50%.
- Designed and built API interfaces for all Vendini applications including payment transactions, event management, sign-on, partner APIs, marketing and transactional email.

Roadmap/product planning, React, Python, PHP/Laravel, Sphinx, Docker, AWS DMS for ETL, PostgreSQL, R, ELK, Nodejs /MongoDB, Domo, Consul, Redshift.

Mar 2014 – Aug 2016   Zerve Inc   San Francisco, CA
VP Engineering

- Zerve provides a platform for managing tour operations. This includes all transaction processing, inventory management, customer service, reporting and marketing tools for operators.

- Improved performance and scalability across the site and improved page load times by over 50% and improved conversion rates.

- Developed content syndication platform and an affiliate program; built reseller APIs to distribute real-time inventory.
- Improved review submission rates by over 50% and photo submission rates by 250%. Generated more reviews than Yelp and Google Maps combined.
- Deployed an iOS booking management and point of sale app for tour operators. Increased revenue by 20%.
- Improved review submission rates by over 50% and photo submission rates by 250% using a series of A/B tests to improve flow.
- Built system for key phrase extraction from consumer text reviews using NLP.

- Built and launched Android and iOS mobile apps for sellers to manage all aspects of business.

Roadmap/product planning, sprint planning, requirements and use case analysis, analytics, R – Jira/Greenhopper, PHP, Go, Python/NLTK, PCI compliance.

Dec 2008 – Mar 2014 SmartShoot Inc   San Francisco, CA

- Grew and managed a team of 40 across two locations.
- Built a marketplace platform that matches filmmakers and photographers with clients – allows bidding and selection process. Increased conversions by 30%.
- Built a milestone based payment system that collects payments and pays out upon milestones being achieved.
- Built a cost based rating and scoring system that better matches jobs to more productive filmmakers and photographers. Used R for modeling and correlation with over 10 variables.
- Integrated order processing with Salesforce, built an event based system to allow scaling.
- Reduced operations costs by consolidating vendors and tools. Built storage and video processing workflows to scale to terabytes of image and video files.
- Implemented search and distribution via Youtube, Tubemogul, Google local, Google Earth and Ooyala.

Roadmap planning, subscription billing, Ooyala, Salesforce, AWS/SQS, S3, Twilio, MongoDB, Python, Angular

March 2004 – March 2008 AT&T YellowPages   San Francisco, CA
Lead Engineer

- Built a call-processing system with IVRs and soft-switches that provided a click-to-call app with integrated credit card processing and tracking.
- Built a customizable system to handle over 400 partner specific phone flows; Implemented fraud prevention controls and collection of user tracking information.
- Developed a high-performance phone number management system to provision and clean phone numbers for pay-per-call advertising. System managed over 100k phone numbers used for advertising.

Technologies used: VoIP, Resiprocate SIP stack, Acme Packet SBC, Asterisk, MSSQL, C++, C#, .NET.

Patents

No	Title
11752267	Methods and apparatuses for delivery of advice to mobile/wireless devices
20050251445	Method and apparatus to allocate and recycle telephone numbers in a call-tracking system
7428497	Methods and apparatuses for pay-per-call advertising in mobile/wireless applications
20070230671	Methods and apparatuses to track information via passing information during telephonic call process.

Education
Pune University, Pune India.
Bachelor of Engineering, Computer Science 1994

Professional Courses:
Businesses negotiation – UC Berkeley
Management and Leadership – UC Berkeley
Statistics – UC Berkeley

VoiceXML and Speech Recognition