Anish Khale

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Professional Summary

Passionate, innovative and fast-paced software engineer with 5+ years experience developing reliable, robust code for high-volume businesses. Spearheaded a team of 6 remote developers that built an 80% faster Node.js platform for First Performance as compared to its PHP predecessor. Reduced turnaround time for creating white-label iOS and Android Titanium applications by over 90%. Increased efficiency of customer website navigation algorithm by 90% for AppedOn. Played a key role in achieving PCI-DSS Level 1 compliance for First Performance within the first 5 months of joining.

Education

- **Georgia Institute of Technology** — Atlanta, GA
  M.S. Information Security (GPA: 3.38) — *Aug 2012 - May 2014*
- **Rajiv Gandhi Institute of Technology** — Mumbai, India
  B.E. Computer Engineering (GPA: 3.50) — *Jun 2008 - Jun 2012*

Work Experience

- **First Performance Global** — Atlanta, GA
  Senior Platform Architect — *Sep 2018 - Present*
  - Researched and developed an algorithm PoC in Python to accurately locate the latitude and longitude coordinates of an unknown merchant for a particular cardholder's transaction based on the cardholder's transaction history
  - Reduced the weekly and monthly analytical report generation process time from 2 days to 2 hours by creating an automated, containerized service written in Node.js that is invoked via Cron jobs and writes reports to designated AWS S3 buckets
  - Architected and developed a platform feature for cleansing gibberish merchant identifiers on a financial statement transaction to meaningful merchant brand names within a few hundred milliseconds using Node.js and Regex
  - Architected and implemented a real-time Parser in Node.js that accepts Mastercard's Automatic Billing Updater file and outputs JSON to determine if a particular card in on file with any of the merchants registered with Mastercard
  - Founded First Performance Innovation Labs, an independent, startup-like organization within the company that brings together highly motivated employees to conceptualize and build cutting-edge technological features and products with emphasis on fast time-to-market cycles
  - Saved the company upwards of $1000/month by reducing a 3.5 TB AWS database server to 500 GB through implementation of an aggressive data pruning strategy while still maintaining data retention SLA
  - Managed deliverable expectations and deadlines across cross-functional teams to complete and ship platform features for Fall 2018 release
  - Designed the architecture and development documentation for 4 plug-in features to card control platform, 3 of which were shipped in Fall 2018 release

- **Veltronics India** — Mumbai, India
  Principal Architect — *Sep 2017 - Aug 2018*
  - Delivered excellent tailored platform solutions to foreign contracts based on their requirements
  - Collaborated with remote architecture teams to design marketable, cutting-edge feature sets
  - Mentored remote development teams on building the platform feature sets with maximum code coverage and minimum errors while adhering to strict coding standards

- **First Performance Global** — Atlanta, GA
  Director of Platform Development — *Jan 2017 - Jun 2017*
  - Led the development and testing effort with a team of 6 remote and on-site Software Engineers for a 1:1 API migration project from PHP to Node.js
  - Completed comprehensive platform training of freshly hired back-end software engineers in 1 business week
  - Achieved 100% planned sprint coverage of the Central API node migration project based on the directions provided to the teams of new recruits
  - Executed timely deployments of card control platform for 3 international clients

- **First Performance Global** — Atlanta, GA
  Senior Software Engineer — *Jan 2015 - Dec 2016*
  - Reduced card control platform code delivery time from 30 days to 5 days by re-factoring code to be customization-friendly via environment variables

- Improved white-label Titanium mobile application generation time from 8 hours to 30 minutes by restructuring code to be configurable by simply dropping a folder containing required image assets
- Delivered customized platform versions to Pilot in under 90 days of project kick-off for 2 international clients
- Streamlined DevOps process by reducing code deployment time from 30 minutes to 2 minutes through the creation of Jarvis, a Node.js automated wrapper around AWS Elasticbeanstalk APIs
- Spearheaded the effort to improve stability and efficiency of the existing API platform by rebuilding it from the ground up in PHP using the SLIM REST framework
- Created the first working prototype of Encoder Gateway - a Node.js server for parsing real-time payment transactions from ISO 8583 format to JSON - for an overseas payment card processor

- **AppedOn** — Atlanta, GA
  Software Developer — *Jun 2013 - Dec 2014*
  - Reduced site navigation latency from 100 to 10 ms by implementing an efficient breadcrumb solution
  - Architected and developed the initial version of the database schema and API server for a PHP and MySQL based platform for controlling credit card payments in real time
  - Developed cross-platform native mobile applications with AWS SNS push notification support in Titanium
  - Developed full-stack applications that included transforming website design wireframes into HTML, CSS and JavaScript, modeling normalized MySQL database models, and designing back-end RESTful APIs for connecting the front-ends to the database models.
  - Fixed bugs and updated Titanium code for iOS and Android applications to work with iOS 7 and Android 4.4.4

Projects

- **Docker Platform Sandbox** — *Docker, Node.js, Shell*
  - Card control platform setup for a faster and leaner local development setup over Vagrant using Docker files per microservice and a centralized docker-compose YAML file

- **Vagrant Platform Sandbox** — *Vagrant, Shell*
  - Card control platform setup for local development using a Vagrantfile and bash script for configuring VirtualBox Linux instance and code components

- **Jarvis** — *Node.js, AWS, Google Hangouts API, Slack*
  - A Node-based command line utility script for simplifying application deployments to AWS ElasticBeanstalk

- **Vote Bot** — *Node.js, Puppeteer, Chromium*
  - A Puppeteer-based bot to automate the Red Bull 2018 voting process

- **Partition Buster** — *Node.js, MySQL*
  - A light-weight utility for fast dropping of MySQL partitions older than a provided cutoff date

- **Daily Standup** — *Node.js, Markdown, Slack*
  - A standup bot for compiling standup answers daily and storing persistently

- **Swiftbox** — *Node.js, Websockets, Redis, Restify, AWS*
  - A blazing-fast payment authorization server with an in-memory database, web-socket connections, and a maximum authorization latency of a few milliseconds

Skills

Programming Languages: Node.js, PHP, Java, C++, Shell, Python

Web Technologies: HTML, CSS, JavaScript, XML

Frameworks: Restify, Express, Sequelize, Mocha, Chai, Titanium Alloy, Slim PHP, jQuery

Databases: Redis, MySQL, MSSQL, Oracle

Containerization: Docker, Vagrant

Operating Systems: Linux, MacOS, Windows

Cloud Technologies: AWS (ElasticBeanstalk, EC2, SNS, CloudWatch, Lambda, ECR), Kibana

Miscellaneous: Architecture, Debugging, Automation, Agile, Scrum, Software Development Life Cycle, NPM, Yarn, Markdown, YAML, LaTeX