

# VIGNESH KUMAR SUBRAMANIAN

Lead/Senior Software Engineer

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## PROFILE

I am a Senior/Lead Software Engineer, Technical Product Owner with 10+ years of software engineering experience, in various aspects of SDLC right including data engineer, observability, cloud, full stack development and building & managing distributed systems of scale. I build & deliver products with innate sense of business, quality, conviction and user fit in mind. Worked in challenging projects in infrastructure, financial and enterprise software domains.

## EMPLOYMENT HISTORY

- ❖ **Senior Software Engineer, MarketAxess** ..... May 2023 — Present  
New York City, NY
    - Technical Product Owner, Lead Engineer of US Investment Grade 400 corporate bond index publicly traded, which has over 51M of funds managed.
    - Successfully rolled out pricing of CP+ municipal fixed income bonds built in AWS, Python, Java, SQL, Spring Boot, Apache Ignite.
    - Built full stack solutions using React, ChartJS, Java, Springboot to improve analyst experience to view/edit bond prices.
    - Laid out observability roadmap across all data products using Datadog, Grafana, CloudWatch, built critical dashboards and incident management process.
    - Replaced a Python pandas-based ETL application with a scalable SQL query integrated into a file distribution framework, enabling seamless addition of new clients and reports, thus reducing costs and improving operational efficiency.
  
  - ❖ **Lead Software Engineer, Opsera Inc** ..... Sep 2021 — March 2023  
Remote
    - Built entire observability roadmap involving logs, infra, application performance & synthetic monitoring from scratch using Datadog, AWS, Kubernetes, Helm.
    - Led team of engineers, designed, architected and coded the backend for building analytical dashboards in NodeJS, Java, Spring Boot, MongoDB to provide meaningful metrics to customers.
    - Built many ETL pipelines on various data sources using Logstash, Kafka, & custom transformation RESTful services written in Node.js, Java 8, Spring Boot.
    - Designed SLA, SLO for applications and owned and implemented incident management processes integrating JIRA, Datadog and PagerDuty.
  
  - ❖ **Software Engineer - 2, Microsoft (formerly Xandr)** ..... Jun 2019 — Sep 2021  
New York City, NY
    - Architected, planned and implemented Cortex a centralized Prometheus which horizontally scalable, HA, multi-tenant for entire Xandr wide application & infra metrics accounting to 500GB per day of metrics data.
    - Developed an innovative application using Angular, ChartJS, Elasticsearch, NodeJS, and Python to analyze pager data, delivering actionable insights to reduce monitoring noise and enhance observability. Reduced org-wide noise by 70% and significantly improved the team's monitoring maturity.
    - Built real time distributed systems of scale in on-prem & cloud Kubernetes clusters to cover the logging and tracing using Elasticsearch, Fluentbit, Jaeger, Terraform & Ansible.
    - Working across product teams to improve their monitoring maturity. Helping them constantly to onboard them into our monitoring suite and improving documentations to increase adoption.
    - Responsible for hiring and mentoring the core team in Bangalore.
  
  - ❖ **Software Engineer, N2 Services** ..... Mar 2015 — May 2019  
New York City, NY
- Client: IBM**
- Built an infrastructure provisioning & configuration-based application with a backend orchestration system written in Node.js, Express and IBM Cloudant to provision and manage servers in the IBM data center.
  - Designed and developer an intuitive and modular UI written in Angular, HTML, CSS, jQuery & Bootstrap.
  - Worked in Java, Spring to build microservices to wrap around Chef and Openstack APIs.

- Periodically participated in stake holder meetings and contributed immensely to translate business requirements into actionable roadmap with deadlines.
- Coordinated delivery agreements with teams to achieve critical milestones and perform end-end testing of different microservices.

**Client: American Express**

- Worked in UI/UX, Angular side of Amex credit card application forms.
- Designed wireframes working with business analytics and converting them to UI using Angular.js, CSS, HTML & Javascript.
- Partnered with Devops and performed release management of all frontend, backend applications using Jenkins and orchestration tools.

❖ **Automation Engineer, Xoriant Corp** ..... Sep 2014 — Feb 2015

**Client: Hitachi Data Systems**

- Developed JUNIT test cases, suites for testing APIs.
- Fixed and verified bugs in Python and Java during regression testing.
- Performed hardware support and triaging of the physical and VM storage clusters over failing test suites.

**EDUCATION**

❖ **Northeastern University** ..... Aug 2012 — May 2014

*M.S Computer Engineering* ..... Boston, MA  
 Computer Architecture, High Performance Computing, Robotics

❖ **Anna University** ..... Jun 2008 — Aug 2012

*Bachelor of Engineering, Electronics and Commnication* ..... Chennai, Tamil Nadu, India  
 Computer Networks, Fundamentals of Algorithms & Data structure, Computer Architecture

**SKILLS**

Java, Javascript ..... <i>Experienced</i>	Datadog, Jaeger, Grafana, Sumologic ..... <i>Expert</i>
Node.js ..... <i>Experienced</i>	Puppet, Ansible ..... <i>Beginner</i>
Python, Pandas ..... <i>Skillful</i>	Prometheus, Cortex, Etcid ..... <i>Experienced</i>
PostgresSQL, OracleSQL, Elasticsearch, MongoDB ..... <i>Experienced</i>	Kafka, Logstash, Fluentd, Fluentbit ..... <i>Experienced</i>
Angular.js, React.js ..... <i>Experienced</i>	AWS EC2, S3, ECS, EKS, Cloudwatch, Athena ..... <i>Skillful</i>
Docker, Kubernetes, Helm ..... <i>Experienced</i>	Microsoft Azure, Terraform ..... <i>Experienced</i>
Jquery, HTML, CSS, Bootstrap ..... <i>Skillful</i>	Nginx, Load balancer, GSLB, grpC, RPC, TCP, UDP ..... <i>Skillful</i>

**COURSES**

❖ **Certified System Administrator** .....

*ServiceNow*

❖ **Blockchain Essentials** .....

*IBM*

❖ **Heterogeneous Parallel Programming** .....

*University of Illionois, Urbana Chamapaigne*