

(EJ) VIVEK PANDEY

Tech Lead | Senior Software Engineer | Data Scientist

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PROFILE

A Technology Professional with **over seven years of diverse experience** in software engineering and data science space. A **Technical Lead** with a proven track record of leading engineering teams in fast-paced start-up environments to deliver data-driven solutions. A **Senior Software Engineer and Data Scientist** with a **patent-pending invention in healthcare analytics** and specialization in rapid prototyping, web app development, big data analytics, cloud architecture, machine learning, and predictive modeling. **Creator of Veniqa**, an open-source e-commerce solution, which has once achieved #1 trending position in Github and HackerNews. **Consulted for multiple American Fortune 500 companies.**

EDUCATION

Georgia Institute of Technology Atlanta, GA
M.S. in Computer Science, Machine Learning Specialization, 3.7 GPA, 2022

Ramapo College of New Jersey Mahwah, NJ
B.S. in Computer Science, 3.68 GPA, 2017

Awards: Magna Cum Laude, College Honors Program, Presidential Scholarship, Deans List, Research Honors Awardee

ENTREPRENEURSHIP

Veniqa | *Co-Founder, Chief Architect & Engineer* | veniqa.com Sept. 2018 - July 2020

- Open-source e-commerce solution that appeared as a No. 1 trending project worldwide on Github and HackerNews
- Originally a fashion retail startup that served South Asian consumers to shop from luxury western brands
- Chief Engineer responsible for platform architecture, server-side development, devOps engineering and database modeling
- Contributed at least half of the code base for the platform with over 40k lines of server-side code.
- Developed over 90 APIs associated with user and shopping experiences, inventory and order management
- Fully automated the deployment process by dockerizing the applications, and setting up CD/CI pipelines

Technology stack: Node.js, Express.js, Vue.js, MongoDB, Redis, Mongoose ORM, Microsoft Azure, Docker, Stripe

FULL-TIME EXPERIENCE

Accenture | *Software Engineering Lead & Data Scientist* | *New York City* Apr. 2019 - Present

- Leading a team of 10 engineers to deliver a competitive intelligence system while collaborating with a cross-functional team of product owners, business experts, and SMEs
- One of the inventors behind a patent-pending Chargemaster Analytics Platform for a Fortune 25 Healthcare Client to discover millions in savings opportunities identifying irregularities in billing practices nation-wide
- Led the engineering team in the aforementioned project from inception to successful production operation within a year, and delivered a fully automated analytics system requiring minimal human intervention within two years
- Led a data engineering team to automate data cleansing, transformation, and migration initiative for end user consumption
- Developed change point detection models to perform automatic surveillance of hospital rate changes & billing practices
- Developed scalable backend components & automated services using Python, Node, and AWS based stack

Knowledgent | *Software/Big Data Engineer & Technical Lead* | *Greater New York* June 2017 - Mar. 2019

- Built efficient, and scalable data-driven software and machine learning solutions for various Fortune 500 and Global 1000 companies
- Lead UX/UI Engineer responsible for the ground-up redesign and rebuild of an angular-based client-side web app for Kariba, an Enterprise Data Catalog Solution adopted by multiple health care and pharmaceutical industry leaders
- Developed efficient and robust backend REST APIs for data cataloging in Java Springboot for the Kariba Platform
- Engineered the ETL process, data profiling and exploratory analysis for machine learning models
- Mentored new engineers, delegating user stories, performing code reviews, and fixing time-sensitive bugs

United Parcel Service | *Software Engineering Co-op* | *Greater New York* May 2015 - June 2017

- Designed, developed and tested automated processes and applications to save manual efforts for QA team, that contributed to cutting down software testing cycles from two weeks to three days.
- Developed testing libraries, scripts and other resources using hybrid testing frameworks for API and GUI driven automated regression testing of the UPS's WorldShip Software used by thousands of high-volume shippers
- Implemented a critical automated production system for rate validation that freed up support staff on weekends
- Mentored junior co-ops and interns for test case re-engineering, scripting and code reviews

Ramapo College, Virtual Reality Research | *Research Assistant for Dr. Scott Frees* | *Mahwah, NJ* Sept. 2014 - Sept. 2015

- Developed a virtual environment using Unity3D Engine & VR gears
- Ran experiments with hybrid mobility scaling techniques to achieve low simulation sickness in VR navigation

TECH CONSULTING

A Fortune 25 Healthcare Company <i>Engineering Lead & Data Scientist</i> <i>New York City</i>	June 2019 - Present
Thinksocially.com <i>Software Engineer</i> <i>Washington, DC</i>	June 2020 - Present
Gerdau Ameristeel <i>Technical Lead & Big Data Engineer</i> <i>Tampa, Florida</i>	June 2018 - Nov. 2018
Amgen <i>Software Engineer</i> <i>Portugal (Remote)</i>	Feb. 2018 - Mar. 2018
Scripps Health <i>Big Data Engineer</i> <i>San Diego, California</i>	Nov. 2017 - Jan. 2018
QBE Insurance <i>Big Data Engineer</i> <i>Australia (Remote)</i>	Aug. 2017 - Sep. 2017

PATENTS

Confidential - Healthcare Analytics System | *Inventor* Filed Dec 1, 2020
Patented system is currently used in production in a Fortune 25 Healthcare Company to analyze claims across 10,000 medical facilities nationwide. It revolves around time-series analysis of claims data & anomaly detection in healthcare billing practices. Useful to identify actionable savings opportunities and assist future contract negotiations.

CERTIFICATIONS

- Leading with Analytics & Artificial Intelligence | Northwestern University (Kellogg School of Management) Nov. 2021
- Certified Machine Learning Specialist | Amazon Web Services Apr. 2019
- Certified Associate Developer | Amazon Web Services Aug. 2017

SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL, GraphQL#
Server-side Frameworks: Node.js, Express.js, Meteor, Django, Flask, Serverless, Springboot
Client-side Frameworks: Angular, Vue.js, React, React Native, Bootstrap, Material, SCSS, jQuery
Data Science/ML Stack: Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Metaflow, Prophet, Scrapy, Jupyter
Database Systems: MySQL, SQL Server, Oracle, MongoDB
Cloud Computing Platforms: Amazon Web Services, Microsoft Azure
Big Data Technologies: Spark, Hadoop and Hive
Deployment: Dockers, CD/CI Pipelines, Git, Splunk

TALKS & AWARDS

- Guest Speaker - "How to transition into Data Science", Dataiku NYC
- Guest Speaker - "ML, DS and AI: Industry and Research perspectives", MounTech Conference
- Mentor & Expo Judge - HackPrinceton 2018, Princeton University, NJ
- Featured Song in "The New York Times" Website: On Camera to get off the waiting list - May 11, 2013
- Presenter in three national and four regional collegiate conferences on subjects like Virtual Reality, Digital Footprints & AI
- Guest Speaker for the "EducationUSA (U.S. Educational Foundation) - Get Inspired Talk Series" in 2013 and 2017
- Honors & Presidential Scholar, Ramapo College of New Jersey
- 1st Place (Solo Hack) - RamapoHacks 2017, Ramapo College, NJ
- 2nd Place & Best Medical Hack - LehighHacks 2016, Lehigh University, PA
- Best Use of Mashery API - HACKRU 2014, Rutgers University, NJ