

VIVEK PANDEY

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PROFILE

A Full Stack Engineer and Data Scientist with four years of professional experience specializing in rapid prototyping apps and cloud architecture, and a year of focus in machine learning, analytics and predictive modeling. Led small engineering teams in fast-paced start-up environments to architect robust and scalable technical solutions. Worked and consulted for several American Fortune 500 companies. Proficient in a wide range of programming languages, development frameworks, cloud computing technologies, and staying up to date on new developments.

EDUCATION

Ramapo College of New Jersey

Mahwah, New Jersey

B.S. in Computer Science, 2017

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

Coursework: Artificial Intelligence, .NET Environment, Database Design, Web Apps, Network Programming, Algorithms

SKILLS

Languages: JavaScript, TypeScript, Python, GraphQL, Java, SQL, C++, C#

Server-side Frameworks: Node.js, .NET, Express.js, Sails.js, Flask, Serverless, Chalice

Client-side Frameworks: Angular, Vue.js, ReactJS, React Native, Bootstrap, Material, SCSS, jQuery

Database Systems: MySQL, SQL Server, Oracle, MongoDB

Cloud Computing Platforms: Amazon Web Services, Microsoft Azure, Google Cloud Platform

Big Data Technologies: Familiar with Spark, Hadoop and Hive

Development Platforms: Dockers, Alexa, Deployment Pipelines, Git, Visual Studio, Android Studio, Eclipse

EXPERIENCES

Accenture | *Full Stack Engineer and Data Scientist* | *Greater New York*

Apr. 2019 - Present

- Performing end-to-end functions associated with data extraction and engineering, feature engineering, predictive modeling, production-ready pipelines and server-less APIs for real time inference.
- Building, training and evaluating classification and regression predictive models using standard algorithms like Linear and Logistic Regression, Random Forest, KNNs, K-means clustering, PCA, and Neural Nets like CNN, RNN and LSTMs etc.
- Developing server-less APIs for interactive dashboards and applications to consume the models in real time
- Building robust web crawlers to scrape data from the web necessary to train machine learning models.
- Performing cleansing, transformation, exploratory data analysis and feature engineering on scraped datasets

Knowledge, part of Accenture | *Software/Big Data Engineer, Technical Lead* | *Greater New York*

June 2017 - Mar. 2019

- Building highly efficient, fault-tolerant and scalable technical solutions for various Fortune 500 and Global 1000 companies by providing consulting services in the roles of Software Engineer, Data Engineer and Technical Lead
- Lead UX/UI Engineer responsible for code ownership, design, development and maintenance of a responsive, interactive and intuitive client-side Web App from scratch using Angular 4+ and Node framework - for Kariba, Knowledge's Enterprise Data Catalog Solution used by multiple health care and pharmaceutical industry leaders
- Contributed 95% of the codebase in Kariba's V3 client web application which is regularly used by hundreds of data stewards
- Developing efficient and robust backend REST APIs in Java Springboot for the Kariba Platform
- Mentoring new engineers joining the team, delegating tasks related to Kariba's front-end, performing code reviews, approving pull requests, co-ordinating prod builds, identifying and fixing time-sensitive bugs while coding out high priority new feature requests day-to-day
- Engineering the process of data extraction, profiling, exploratory analysis, source selection, cleansing and transformation to feed into machine learning models and master data management solutions

United Parcel Service | *Software Automation Engineer (Co-op)* | *Greater New York*

May 2015 - June 2017

- Designed, developed and tested automated processes and applications using C# .NET framework to save manual efforts on environment configurations, test run scheduling, status notifications, file transfers, network traffic monitoring, etc.
- Developed testing libraries, scripts and other resources using hybrid testing frameworks for API and GUI driven automated regression testing of the WorldShip Software
- Designed and implemented a critical automated production system from scratch that validated rating data sent to customers
- 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

- Assisted a senior peer in developing and configuring a virtual environment using Unity3D Engine & various VR equipments
- Experimented with hybrid mobility scaling techniques to achieve low simulation sickness in virtual reality navigation

CERTIFICATIONS

- Certified Machine Learning Specialist | Amazon Web Services
- Certified Associate Developer | Amazon Web Services

Apr. 2019

Aug. 2017

CONSULTING ENGAGEMENTS

Gerdau Ameristeel <i>Technical Lead, Big Data and AWS Engineer</i> Tampa, Florida	June 2018 - Nov. 2018
<ul style="list-style-type: none">Set architecture directions for the team, tracked day-to-day technical status and handled communications with stakeholders for building Machine Learning solutions to boost sales intelligence in customer segmentation, order forecasting and product recommendationsEngineered over 70 gigs of data using Python, deployed the data pipeline along with machine learning models and a rapidly prototyped web app on AWS for productional use	
Amgen <i>Software Engineer</i> Portugal (Remote)	Feb. 2018 - Mar. 2018
Scripps Health <i>Big Data Engineer</i> San Diego, California	Nov. 2017 - Jan. 2018
QBE Insurance <i>Big Data Engineer</i> Australia (Remote)	Aug. 2017 - Sep. 2017

ENTREPRENEURIAL VENTURES

Veniq <i>Co-Founder, Chief Platforms Architect</i>	Sept. 2018 - Present
<ul style="list-style-type: none">An ecommerce platform and logistical service that aims to make fashion products from western luxury brands accessible to people in eastern countriesChief Platforms Architect leading a technical team of engineers and interns in developing the ecommerce platform from scratch while also closely shaping up the core logistical processesSingle-handedly designed and developed two web servers serving over 90 APIs associated with user and shopping experiences, inventory and order management	
Tip of the Tongue <i>Lead Developer</i>	Dec. 2018 - Present
<ul style="list-style-type: none">A Machine Learning based platform that recommends words on the tip of your tongue based on contextual phrasesResponsible for design, development and deployment of user facing applications suite comprised of Web app, voice activated iOS, Android and Alexa skills	

HONORS & AWARDS

- Presidential Scholar, Ramapo College of New Jersey
- Mentor & Expo Judge - HackPrinceton 2018, Princeton University, NJ
- 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
- 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

RAPID PROTOTYPING

Ava <i>2nd Place & Best Med. Hack in LehighHacks 2016, Microsoft US Imagine Cup Semi-Finalist</i>	Dec. 2016
A smart medical application prototype which will read your prescriptions/medicine labels and remind you to take medicines accordingly, notify your near ones and help them find you in case of emergencies, provide guidance for first responders, et cetera.	
Platforms used: Python-Flask framework, Java-Android, MongoDB, Google Vision and Maps, Twilio, Microsoft Azure	
Booksterdam <i>1st Place in RamapoHacks</i>	Apr. 2017
A prototype application to facilitate college students to easily buy and sell used books within their campus.	
Platforms used: Node.js, Express.js, MySQL, Amazon Web Services, isbndb.com, openlibrary.com, etc	