

# KEVIN PHAN

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I'm an aspiring entrepreneur who loves to build Web Applications, backend infrastructure and cloud infrastructure.

## EDUCATION

2014 - 2017	B.A (Specialized Honors), Experimental Physics & Economics - York University (Magna Cum Laude)
2017 - 2018	Graduate Certificate, Data Analytics, Big Data & Predictive Analysis – Ryerson University
2021 - 2022	AWS Certified – Solutions Architect & Cloud Practitioner

## TECHNICAL SKILLS

N/A

- Experience with *MySQL*, *PostgreSQL*, *Redis*, *Snowflake*, & *MongoDB*.
- Worked with data engineering technologies such as *DBT*, *metricQL* and *LookML*.
- In depth *Python* development background. This also includes unit / integration testing with *pytest* & *selenium*.
- Experience in Big Data tools such as *Hadoop*, *Vaex*, *Spark*, *Grpc*, *Apache Plasma*.
- In depth knowledge of web dev tech such as *Dash*, *Node.JS*, *React*, *Gunicorn*, *Nginx*, *Docker* and *Dokku*.

## WORK EXPERIENCE

10/2021

### **Data Engineer – VTS (View The Space) (Toronto, ON)**

- Set up deployed *Meltano* and *Airflow DAGS* on EC2 to via ansible to run robust pipelines for data ingestion.
- Created *scala spark jobs* on *EMR* to transform and update snowflake with data from *Cherre API*.
- Extensive usage of *Airbyte* to sync data from *Postgres* to our production *Snowflake Database*.
- Created upstream and downstream *DBT* models and provisioning resources via terraform.
- Worked with *K9s*, *kubectl* a variety of different AWS resources & BI tools like *looker (lookml)*.

02/2019 –

### **Plotly (Montreal, QC)**

10/2021

#### ● **Software Engineer - Dash Core (02/2019 – 09/2019)**

- Developing production Web Apps in python / JavaScript and deploying to single node servers.
- Responsible for integration testing, implementing new features in *DashR* and building the first web applications under the *DashR* framework (can be viewed at <https://dash-gallery.plotly.host/Portal/> ).
- Played a major role in creating user documentation for *DashR* users. (Can be viewed at <https://dashr.plot.ly/>).
- Created a *React/NodeJS* website & embedded a Dash App with *JWT*; Plotly's first example without *IFrames*.

#### ● **Software Engineer – Dash Solutions (09/2019 – Present)**

- Lead of *Dash Live Weekly* and speaker at the *CSCDS Data Science Expo*.
- Created custom web apps for clients using *ReactJS*, *Dash*, *Flask*, *Node*, *Redis*, *Celery* and *Kafka*.
- Built backend infrastructure for applications, used technologies such as *Postgres*, *Redis*, *Kubernetes* and *Docker*.
- Lead projects with cloud migration (AWS: S3) & custom app development with fortune 500 companies.
- Additional technologies used include *GraphQL*, *Apache Livy*, *MySQL*, *Snowflake*, *Databricks*.

07/2018 –

### **Data Engineer (Machine Learning) – Wavemaker (Toronto, ON)**

02/2019

- Created (un) supervised & reinforcement ML algorithms for predictive modelling, clustering analysis and classification learning techniques in *R* and *Python*.
- Created a full stack app using *node.js* for API calls and callbacks.
- Built ETL / ELT data pipelines for *Molson & Mitsubishi* & *GroupVMedia*

## PROJECTS & VENTURES

10/2021

### **Founder / CEO – Apoline (apoline.io)**

- *Apoline* is a data and technology startup that specializes in providing companies with data centric web application and ML / AI services.
- The startup has been self-funded thus far with client engagements with *BOGO* and *Trainer+*.

To Whom It May Concern:

It is our honor to submit a letter of reference for Kevin Phan and to testify to his outstanding abilities that would serve well for this position. We, the Program Director of Engineering, Architecture and Science and Academic Coordinator, respectively, have come to know Kevin well during his studies in the Graduate Program in Data Analytics, Big Data and Predictive Analytics. Kevin is an outstanding student who produced excellent big data analytics applied analyses. He technically executed innovative and forward thinking while working on machine learning and analytic projects dealing with real workforce data sets. Kevin's most valuable assets are his professionalism, presentation and communication skills. This was shown in his presentation of an in-depth analysis of a customer churn data set where Kevin was able to convey his findings in a clear and concise way in front of numerous PhDs and leading Data Science professors. His analytic abilities coupled with his professionalism and well-spoken manner leads us to strongly believe that he would be a great asset to your organization.

Kevin has an undergraduate degree in Physics & Economics. He also possesses experience as he has worked at the Royal Bank of Canada where he was applied his skills and knowledge. It is an honour to witness his big data analytics mastery attainment at Ryerson University. We attest to Kevin possessing the following attributes, skills and abilities:

Programming Skills ~~R~~ JSON, SAS, SQL, Hadoop, Hive, Pig, Oozie, Spark, Sqoop, XML, Regular Expressions

Software Expertise ~~W~~EKA, MongoDB, XML, Tableau, IBM Watson, HortonWorks, HBase

Theoretical Knowledge ~~A~~ Advanced Statistical Tests & Methods, Machine Learning Classification Algorithms, Advanced Mathematics, Finance & Financial Applications programming concept and theory.

Kevin's attention to detail, ability to think outside the box and most importantly, his will to learn and adapt will make him an invaluable asset to your organization. Please do not hesitate to contact us for further information.

Sincerely,



Anne-Marie Brinsmead (Ph.D., Princeton University)  
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