# Kawalpreet Deol
## Software Engineer

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## Skills

**Languages & Frameworks**: Python (Django, Flask), JavaScript (React, Vue, Node), SQL
**Technologies**: AWS, Azure, GCP, MySQL, PostgreSQL, NoSQL, Linux, Git, GitHub Actions, Docker, Terraform, Spark (PySpark), Jira
**Software Engineering:** Agile, Automation, Cloud, Databases, Microservices, Serverless, REST API, CI/CD, Networking, Performance

## Work History

**MEM Engineering Inc**                                                                          **Mississauga, ON**
*Software Engineer*                                                                               *05/2024 – Present*
- Designed and implemented a scalable static web hosting architecture to communicate business services using React, Bootstrap, Amazon S3, and Amazon CloudFront, reducing page load times by 30% through optimized CDN delivery.
- Implemented a GitHub Actions CI/CD pipeline to automate builds and deployments, reducing deployment time by 40%.
- Developed backend REST APIs using Python and Django, deployed on AWS Elastic Beanstalk, ensuring reliable performance with the ability to handle 250+ concurrent users.
- Integrated Amazon RDS for PostgreSQL to store analytics and form submissions with automated daily backups.
- Containerized the application using Docker, ensuring consistent development environments and cutting setup time by 60%.
- Reduced infrastructure setup time by 70% through reusable Terraform modules for AWS resources.

**TealBook**                                                                                           **Toronto, ON**
*Data Engineer*                                                                                    *09/2022 – 12/2022*
- Led the development of a data quality application to validate large spend files using React, Flask, Google Cloud Storage, and Google Datastore (NoSQL) in a Unix environment, resulting in a 2x increase in insights.
- Conducted recorded tutorial sessions and authored detailed documentation, reducing project onboarding time by 75%.
- Optimized manual data processing workflows by creating a microservice and REST API using Python, Pandas, and Flask for automating Google Sheet data cleansing and aggregation, enhancing efficiency by 120x.
- Participated in sprint planning, daily scrums, and retrospective sessions, utilizing Agile to streamline project management.

**TealBook**                                                                                           **Toronto, ON**
*Machine Learning Specialist*                                                                      *01/2022 – 04/2022*
- Optimized and deployed web crawlers to scrape business certification data, using Python, Pandas, BeautifulSoup, and Scrapy in a Linux virtual machine on Google Compute Engine, collecting and processing 70,000+ rows of data.
- Developed a Python script to securely send cleansed JSON certification data to an ML API via a JWT authenticated request, optimizing process performance by 30%.
- Designed a machine learning NLP (BERT) model for predicting Small Business certification eligibility using Python, TensorFlow, Jupyter Notebooks, SQL and Google BigQuery, achieving 82% accuracy.

**PartnerStack**                                                                                       **Toronto, ON**
*Full Stack Developer*                                                                             *05/2021 – 08/2021*
- Collaborated on the entire software development life cycle (SDLC) for the Vendor Summary Page, including goal definition, audience analysis, and prototyping, leading to improved design outcomes, supporting 300+ leading software brands.
- Managed tasks using Agile on Jira for the Partner Ecosystem Platform, delivering features with Vue and Flask in a Unix environment to enhance system functionality and user experience, affecting 80,000+ active partners.
- Conducted integration testing and managed CI/CD pipelines with GitHub Actions, reducing errors by over 70%.

**Horizn**                                                                                             **Toronto, ON**
*Web Developer*                                                                                    *09/2020 – 12/2020*

**Venngo**                                                                                              **Toronto, ON**
*Junior PHP Developer*                                                                             *01/2020 – 04/2020*

**City of Toronto**                                                                                    **Toronto, ON**
*Software Engineer / Technical Trainee*                                                            *05/2019 – 08/2019*

## Education

**University of Waterloo**                                                                              **Waterloo, ON**
*Bachelor of Applied Science – Computer Engineering*                                               *09/2017 – 06/2023*

## Certifications

**Microsoft Azure Data Engineer Associate**                                                        **Expires: 08/2025**