Piyush Datta

Website: https://www.piyushdatta.com
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Work Experience

Amazon Web Services   Toronto, ON
Software Development Engineer   June 2020 – Present
- Backend development work with AWS Aurora Database Engine team using C/C++
- Developing features to boost performance and reliability of Aurora MySQL's logical replication
- Part of core Aurora MySQL team working on next major version, Aurora MySQL 8.0

Givex   Toronto, ON
Software Developer   Feb 2019 – Jan 2020
- Backend development work with Python, JavaScript, C/C++, PostgreSQL, and Unix
- Implemented gift card, point of sale and other transaction-based solutions for companies such as Nike, McDonalds, Marriott International, and many more
- Integrated Apple wallet and Google pay, with web services for both, into our gift card systems
- Developed SOAP APIs for integration with third party vendors, such as CAA

Projects

TensorFlow – Google Brain Open-source Project   https://www.tensorflow.org/
C/C++, Python
- Open-source project to help developers create and train machine learning models
- Currently a contributor (labelled on GitHub) working on bug fixes and new feature development

Cashmi - Android Application   https://play.google.com/store/apps/details?id=com.application.cashmi
Android, Java, Firebase, Facebook SDK
- Provides users with an easy way to split bills/transactions with other users
- Uses Firebase to store user, transaction, and user interaction data
- Makes use of Recycler view and List view to shuffle through the transaction data

Two Sigma - AI Competition - Halite 2   https://halite.io
Python, TensorFlow, NumPy
- Used an artificial neural network to train and teach my bot to beat other bots in a virtual game created by Two Sigma (Ranked top 10% of players in Halite 2)
- Scraped data from google cloud buckets and trained my bot on google cloud virtual machines

Other projects   https://github.com/PiyushDatta
- Desktop Image Tagger, SEC Edgar File Downloader, Monte Carlo Pi Approximation Simulation
- All projects are listed on my GitHub and the number of projects continually grow, so much that it is not feasible to list all of them here

Skills

Primary Languages: C/C++, Python, Java, JavaScript/Typescript
Technologies: AWS, Google Cloud/ML engine, Heroku Cloud, TensorFlow, PyTorch, NumPy, Android, Firebase, Django, PostgreSQL, MySQL, SQLite, Testing (C++ Google Test, Python Unit Test, JUnit), REST API, Unix, Git, CVS

Education

University of Toronto, St. George Campus   Toronto, ON 2014-2018