ASHIN GEORGE

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EDUCATION

University of California San Diego — **Overall GPA: 3.96/4**
MS in Computer Science — Sep 2017 - in progress

Birla Institute of Technology and Science - Pilani — **Overall GPA: 9.12/10**
B.E.(Hons.), Electrical and Electronics Engineering — 2009 - 2013

TECHNICAL SKILLS

Languages Python, Java, Perl, C/C++, git, SQL, Spark, CUDA, MPI, MATLAB, shell
Libraries TensorFlow, Keras, PyTorch, OpenCV, SkLearn, Pandas, Numpy, NLTK

EXPERIENCE

Oracle Labs — San Diego
Machine Learning Research Intern — *Jun 2018 - Sep 2018*

Automated diagnosis and mitigation of artefacts to enhance Oracle Advanced Analytics platform

ARM — Bangalore, India
Senior Engineer — *Apr 2017 - Aug 2017*
Engineer — *Jan 2015 - Mar 2017*
Graduate Engineer — *Jul 2013 - Dec 2014*
Intern — *Jan 2013 - Jun 2013*

- Functional verification of ARM architecture CPUs using Random Instruction Sequence (RIS)
- Profiled and overhauled the internal multi-core RIS tool leading to licenses from external partners
- Automation of top-level Microprocessor Validation Flow using Perl

University of California, San Diego
Graduate Teaching Assistant Web Mining & Recommender Systems — *Sep 2018 ongoing*
Graduate Teaching Assistant Computer Engineering — *Apr 2018 Jun 2018*

Madras Atomic Power Station, Kalpakkam — India
Summer Research Intern — *May 2011 - Jul 2011*

PROJECTS

Fake News Classification {Python: Sklearn, Numpy, BS4}

- Created a News classifier using web assisted MLP with 86% accuracy and 0.13 BER
- Compiled a news corpus, *Beautiful Liar*, of 435,000 labeled articles from sources like Politifact.com

High Speed Aliev-Panfilov Cardiac Simulation {C++, OpenMPI}

- Implemented Aliev-Panfilov model for simulating electrical signal propagation through cardiac tissue
- Optimized the model for multi-core systems ranging from 8 to 960 cores with (3.9 TFlops on 960 cores)

High Performance Matrix Multiplication on CPUs and GPUs {C, C++, CUDA}

- Achieved 7 GFlops/s (20× performance) on CPU using SSE/AVX, compiler and memory optimizations
- Achieved 500 GFlops/s on Nvidia K80 GPUs using optimal tiling and memory coalescing

Personalized Recommender System Optimized for Sparse Datasets {Python: Pandas, Numpy}

- Created a recommender system to suggest stores to users using Collaborative Filtering and Latent Factor

Multi-Agent Deep Reinforcement Learning {Python, Numpy}

- Created Tic-Tac-Toe with multiple playing modes and trained reinforcement learning agents