

Peter Leng

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SKILLS

LANGUAGES

Python • JavaScript • Solidity
C++ • Java • C#
Lua • HTML5 • CSS

FRAMEWORKS & TOOLS

Tornado • Flask • AngularJS • NodeJS
NumPy • Pandas • Matplotlib
Tensorflow • Pytorch • Keras • CUDA
PostgreSQL • PostGIS • GDAL • S3
EC2 • API Gateway • AWS Lambda
Truffle • Web3JS

LINKS

Github:// [peterl328](#)
LinkedIn:// [Peter Leng](#)
Devpost:// [Peter Leng](#)

EDUCATION

UNIVERSITY OF WATERLOO

B.A.SC. COMPUTER ENGINEERING
Expected 2020 | Waterloo, On

WATONOMOUS

UW AUTONOMOUS VEHICLE TEAM
Localization & Mapping

CERTIFICATES

UDACITY NANODEGREE

Self-Driving Car Engineer

COURSERA

Machine Learning
Control of Mobile Robots

AWARDS

HACKATHONS

TreeHacks 2017 - Top 10/130
HackPrinceton 2016(F) - Top 5/100
HackPrinceton 2016(S) - Top 5/80
BostonHacks 2015 - Top 1/60

EXPERIENCE

SPARTAN FUND MANAGEMENT | QUANTITATIVE DEVELOPER INTERN

May 2018 - Aug 2018 | Toronto, On

- Implemented portfolio allocation methods using enhanced Black-Litterman method
- Developed volatility forecasting models using multi-layer LSTM-RNN with pytorch
- Improved back-test performance with code improvements and database caching which reduced 14-year back-test time by 87.5%
- Developed a sentiment engine that analysis twitter feed and news article producing strong alpha signals

PLANGRID | SOFTWARE ENGINEERING INTERN

Sept 2017 - Dec 2017 | San Francisco Bay Area

- Designed and built device sync feature across all mobile platforms (iOS, Android, Windows) to keep track of documents and sheets sync status
- Worked on the Prototype API allowing fast prototyping for implementing new features

SKYWATCH | BACKEND & DATA ENGINEERING INTERN

Jan 2017 - May 2017 | Kitchener, On

- Decreased database query time by using indexes, optimizing PostGIS SQL statements and RDS server configurations from an average of 5 minutes to within 30 seconds
- Built backend systems for admin console and user dashboard using Python-Tornado and PostgreSQL
- Developed a download proxy server to handle asynchronous image downloads using bit streaming which increased average download speed by 40%
- Built an image clipping micro-service using Python-GDAL allowing users to download clipped satellite images

5CROWD | SOFTWARE DEVELOPER INTERN

May 2016 - Aug 2016 | Toronto, On

- Added responsive To-do feature to AngularJS app and created API endpoints for storing To-dos
- Implemented an invoice system for automatic payments
- Developed advance filtering system for company's client and project list using Angular directives

PROJECTS

SLITHERIO-AI | NEURO-EVOLUTION OF AUGMENTING TOPOLOGIES

April 2017

Uses Neural-evolution of Augmenting Topologies and OpenAI gym to train an AI to play SlitherIO

AI-DRAW | GENETIC ALGORITHM

Nov 2016

AI-Draw uses advance genetic algorithms to draw images using circles.