# 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 • 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

### 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
- Integrated events endpoint into the Plangrid Windows application, allowing application status update
- Worked on the Prototype API allowing fast prototyping for implementing new features
- Ran A/B testing for new features such as device sync for beta users

### 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

### FLARE | Lead Backend Developer
June 2016 - Mar 2017 | Toronto, On

- Implemented the Flare App backend using NodeJS and PostgreSQL with PostGIS
- Built an admin console using NodeJS and D3.JS for data visualization
- Developed data pipeline for data visualization using PipelineDB
- Developed and proposed the micro-service architecture for better scalability

### 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
- Implemented user profile page allowing different logins and web application views

## 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.