

# Peter Leng

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## SKILLS

### LANGUAGES

Python • JavaScript • Solidity  
 C++ • Java  
 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.