

# ANTHONY LUKACH

SOFTWARE DEVELOPER

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**Summary** Self-driven full-stack developer. Well-versed in open source Unix-based systems. Excellent communication skills, fan of team building and intra-team mentorship. Affinity for debugging and tuning systems. Genuinely enthusiastic about learning, building, and shipping.

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## Professional **Manager of Development**

Osprey Informatics

July 2015 - Present

Calgary, AB

Interacted with various stakeholders for product planning and development. Performed project management within the development team. Promoted mentorship and communication amongst fellow developers.

## **Senior Software Developer**

Osprey Informatics

October 2013 - Present

Calgary, AB

Developed fault-tolerant system to configure and control array of remote IP cameras. Designed remotely-installed system nodes to overcome limitations of network connectivity. Implemented continuous integration, infrastructure management, automated internal-failure resolution, and greatly improved test coverage. Provided project management assistance, planning and prioritizing features. Strengthened adherence to process within development lifecycle in efforts to adopt 'best practice' workflows. Supported computer-vision and search implementation. Focused on team building and mentorship amongst fellow developers.

## **GIS Software Developer**

OneOcean Corporation

April 2012 - October 2013

Seattle, WA

Developed cloud-based SAAS platform for storing, visualizing, and searching spatial datasets. Heavily leveraged GDAL along with proprietary third-party point-cloud drivers. Created complimentary ArcGIS plugin to integrate with OneOcean's API.

## **Programmer**

Flaxen Geo Consulting

December 2011 - February 2012

Seattle, WA

Developed web crawlers to accept search queries and scrape websites for imagery and supporting metadata. Rendered Javascript content in a headless browser, allowing for client-side content to be scraped. Worked independently and within a strict budget and timeframe.

## **Hydrographer / Cartographer**

National Oceanic and Atmospheric Administration

Pacific Hydrographic Branch, Office of Coast Survey

July 2008 - July 2011

Seattle, WA

Refined and coupled data with positional and environmental correctors, insuring that quality met federal and international standards. Compiled gathered data into charts while maintaining data accuracy and chart aesthetics. Field projects included Deepwater Horizon Spill, system shakedown along California coast, and general bathymetric surveying in coastal Alaska and Washington. Utilized VBA, Python, and SQL to develop in-house tools to streamline the survey QC process and assist with in-office metrics assessments.

## GIS Analyst

POWER Engineers

November 2007 - January 2008

Boise, ID

Created and contributed to geodatabases through geocoding data sourced from aerial photos and scanned maps. Georeferenced imported rasters. Created charts to assist with project planning.

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### Personal

#### MaptimeCalgary

Co-Founder

<http://maptimecalgary.github.io>

Calgary chapter of international Maptime group. Focused on providing technical tutorials and presentations to local community. Additionally aims to serve as general support network for those looking to learn about mapping and troubleshoot mapping-related problems.

#### Dropchop.io

Collaborator

<http://dropchop.io>

An experimental browser-based GIS, aiming to provide an intuitive, modern, and free GIS platform. Developed publicly as an open source project, relying heavily on remote collaboration through Github Issues and Pull Requests. Written utilizing object-oriented design principles with solid test coverage. *Developed with Javascript, HTML5, Leaflet.js/Mapbox.js, Turf.js, Karma, Mocha, Chai, Sinon, Grunt.*

#### LivingCityMap

Founder / Developer

<http://www.livingcitymap.com>

An effort to provide spatial context to events within the Seattle area. Spiders are dispatched nightly, extracting events and locations from local weeklies. Each event's location is run through a geocoder, and then entered with event into a database. Data served via RESTful API. Data consumed by front-end single-page-app. *Developed with Python, GeoDjango, PostgreSQL, PostGIS, Scrapy, Celery, Leaflet, AngularJS.*

#### CalgaryAlerts

Team Member

Winning Entry, 2015 City of Calgary Hackathon

April 2015

An SMS-based local notification system. Users were able to subscribe to information pertinent to their interests and location, such as city events, traffic and transit updates, voting reminders, emergency alerts, and parking restrictions. Data was ingested from City of Calgary OpenData catalogue and routed to appropriate interested parties. *Developed with Python, GeoDjango, PostgreSQL, PostGIS, AngularJS.*

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### Education

#### University of Washington

Certificate in Data Science

February 2014 - July 2014

Introduction to modern Data Science techniques and applications.

#### University of Victoria

Bachelor of Science, Geography

December 2006

Victoria, BC

Digital Remote Sensing, Digital Geomatics, Cartography, Map and Air Photo Interpretation