ANTHONY LUKACH

SOFTWARE DEVELOPER

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Summary

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

Technologies

python, django, celery, twisted, rabbitmq, nodejs, expressjs, angularjs, angular2, reactjs, sass, html5, css3, leaflet, postgresql, postgis, elasticsearch, puppet, ansible, docker, rest, oauth2, git, aws (ec2, ecs, s3, mechanicalturk, sns, route53, cloudfront, elb)

Professional

Backend Developer
Cadasta Foundation
March 2017 - Present
Calgary, AB

On a distributed team developing a suite of open-source tools to allow users to collect, manage, and store data on land and resource rights in a secure cloud platform.

Team Lead / Manager of Development
Osprey Informatics
July 2015 - March 2017
Calgary, AB

Managed team of 7 developers rapidly spec'ing out and developing SAAS platform. Interacted with various stakeholders for product planning and development. Performed project management within the development team. Oversaw R&D efforts developing and utilizing machine learning/computer vision based solutions, including the automated curation of large training sets. Promoted mentorship, engagement, and communication amongst fellow developers.

Senior Software Developer
Osprey Informatics
October 2013 - March 2017
Calgary, AB

Developed fault-tolerant IoT 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.

Personal

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.*

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.*

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

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