

# Aleck Landgraf

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<http://aleck.me>

## Software Development Experience

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### Incentivater (Finance technology)

#### Co-founder (Portland, Oregon)

Aug/16 - Present

- Implemented marketing site, [incentivater.com](http://incentivater.com), and rebate submission web app
- Developed mobile friendly front-end in SASS, HTML5, AngularJS, lodash, built with webpack
- Developed Django python back-end with [graphene](#) (Relay) to expose data via a single API endpoint
- Continuous Integration and Continuous Deployment on Heroku

### BuddyUp Inc. (Social network, mobile chat)

#### Software Consultant (Portland, Oregon)

Feb/16 - May/16

- Designed and implemented Elasticsearch analytic back-end to discover key performance metrics (e.g. cardinality metrics and sentiment analysis)
  - Created standalone git repo for analytics page with documentation and quick start guide for new devs
  - Provided performance stats and documentation to integrate with existing app
- Wrote a hipchat bot plug-in to integrate with the sales CRM, [pull request here](#)
- Analyzed performance issues with the BuddyUp [mobile app](#) (Ionic, AngularJs, Firebase)
  - Utilized Angular Batarang and chrome dev tools to audit performance and make recommendations

### Building Energy Inc. (Energy efficiency industry)

#### VP Software Engineering, Lead Developer, Co-Founder (Portland, Oregon)

Apr/12 - Present

- Co-Founded and led the technical development for a energy efficiency software company
- Responsible for hiring and managing the software development team
- Researched and decided on infrastructure, back-end and front-end technologies, python and JS style guide
- Architected scalable and secure infrastructure on AWS utilizing VPCs and in-house deployment tooling
- Managed the successful delivery of over \$2MM in three software contracts to the US DOE,
- (e.g. [SEED Platform](#) and the [Building Performance Database](#))
- Standardized code repositories to have CI and single command deployments using fabric
- Created data visualizations with HTML/CSS and d3.js to show energy trends and benchmarks.
- (e.g. [Building peer group comparison with call to action](#))

### Indie Energy (Geothermal renewable energy)

#### Solutions Engineer, Lead Developer (Evanston, Illinois)

Oct/11 - Mar/12

- Connected building management systems to a cloud app (Django) via specialize hardware/software
- Python, Django, development and integration of new hardware monitoring installations to the monitoring system
- Designed and project managed installations of monitoring hardware
- Implemented internationalization in Django for a partnership with a Dutch software company

## Other Professional Experience

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### SMS Systems Maintenance Services (IT Services)

#### Systems Engineer (Chicago, Illinois)

Aug/05 - Oct/11

- Sole web developer and system administrator for the Midwest region
  - Implemented an internal CMS on the LAMP stack
  - Implemented a search engine for the CMS and OEM documentation
- Developed an internal course and trained engineers Solaris Unix administration
- Case managed 50+ accounts for server hardware and software support (IBM, Oracle, HP, EMC, NetApp)

## Education

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- **The Ohio State University, College of Engineering**, Columbus, Ohio, USA  
**Bachelor of Science** in Electrical and Computer Engineering

Graduation  
June 2005

## Technical Skills

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- Expert in Python ecosystem (e.g. Django, Celery, Redis, REST framework, fabric, flask)
- Expert in JavaScript ecosystem, particularly AngularJS and a working knowledge of React and build tools (gulp, webpack)
- Strong background in REST API development as well as developing API clients
- Strong background in test-driven development, CI/CD platforms and deployments (AWS, Heroku)
- Strong background in data visualizations with d3.js
- Database working knowledge: PostgreSQL, MySQL, Elasticsearch, Firebase, Redis
- Experience building production hybrid mobile apps with Ionic (Angular 1 & 2) and React Native

## Presentations, Open Source Contributions, and Publications

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### Related to JavaScript Development

- **Three Steps to Building Angular Apps with Components**  
Aug 29th, 2016, Technical Article, <http://bit.ly/2cnzctn>
- **An Introduction to Angular 1.5 Components**  
Jun 28th, 2016, Technical Article, <http://bit.ly/2bnBuVY>

### Related to Databases and Python Development

- **Introduction to Object-relational Mapping (ORM)**  
Mar 20th, 2016, Guest Lecturer at [Hack University](http://hackuniversity.com), <https://github.com/hackoregon/hack-university-orm>
- **Debugging for Humans**  
Jan 28nd, 2015, PDX Python Presentation, <http://aleck.me/pdbpdx>
- **Using PostgreSQL for Unstructured Data**  
Sept 22nd, 2014, PDX Python Presentation, <http://bit.ly/2b4RO10>
- **Elasticsearch, not just for text search**  
Jul 23rd, 2014, OSCON Birds of a Feather, <http://bit.ly/2balUwd>

### Contributions to Open Source Packages

- [Django Compressor](#), [PyNRELUtility](#), [Django Tastypie](#), [elasticsearch-dsl-py](#), [Django Analytical](#), [ssh2](#), [mcm-core](#), [our-will](#), [hack-university-orm](#), [Gardenio](#)
- **Public git repository** available at <https://github.com/alecklandgraf>