Aleck Landgraf

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Software Development Experience

Airbnb Inc (Internet technology)
Software Engineer (*Portland, Oregon***)**   Oct/16 - Present

- Led full-stack and front-end projects for Airbnb's customer support
- Co-developed and taught an internal class for engineers covering Redux within the React ecosystem

Incentivater (Finance technology)
Co-founder (*Portland, Oregon***)**   Aug/16 - Present

- Implemented marketing site, 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 (GraphQL) 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 visualations 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

SMS Systems Maintenance Services (IT Services)
Systems Engineer (*Chicago, Illinois***)**   Nov/05 - Sept/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

- **The Ohio State University, College of Engineering,** Columbus, Ohio, USA   Graduation
  Bachelor of Science in Electrical and Computer Engineering   June 2005

Technical Skills

- 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

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, 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, react-textarea-autocomplete
- **Public git repository** available at https://github.com/alecklandgraf