

TRENT CLIFTON

SOFTWARE ENGINEER

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🔄 lakopite

A driven software engineer with 4 years of professional development experience and 2+ years of experience in a lead role. Happiest learning new tools and solving challenging problems. Love being a jack of all trades.

SKILLS

Python
Javascript
HTML
CSS
Polymer
Flask
Node.js
Chalice
Claudia
AWS Lambda
AWS API Gateway
AWS Elastic Beanstalk
AWS S3
AWS EC2
AWS Aurora
AWS Redshift
AWS SQS
AWS CloudFormation
Google Firebase
Mongo
MySQL
PostgreSQL
REST
JSON
Git
Linux/Windows/MacOS
Bash
Apache
CI/CD (AWS Code Build/Code Pipeline)
SASS
ES6

EDUCATION

BS Electrical Engineering

Emphasis in Computer Engineering
Loyola Marymount University – May, 2014

EXPERIENCE

Software Engineer | ARUP | Jul 2014 – Present

Lead a lean development team building applications of varying scale and complexity to support a structural engineering group at the forefront of automation in the industry.

Main accomplishments include but are not limited to:

- Implemented a cloud-based analysis workflow/application that reduces the end-to-end time for seismic analysis ten fold.
- Developed an algorithm and subsequent web application that uses multi-disciplinary engineering logic to optimize the core design for tall buildings.
- Built an application that allows structural engineers to quickly design crude frametypes and receive an analysis response within seconds.
- Lead the development of a web application that ingests JSON building models, allowing users to visualize contours as well as track quantity changes.
- Gained a global reputation as a dependable problem solver; brought on to rescue critical projects as deadlines approached.

Main responsibilities and skills:

- Cloud solutions architect and implementation lead for data-intensive analysis workflows, that are responsible for processing ~5TB of analysis data per iteration.
 - AWS services such as Redshift, Aurora, S3, EC2, Lambda, Elastic Beanstalk, SQS, CloudFormation, API Gateway, Code Build, Code Pipeline, etc.
- Backend development using Python and Node.js frameworks, relying on a plethora of modern tools for deployment with a current focus on Serverless architectures.
 - Flask (Python), Chalice (Serverless Python), Claudia (Serverless Node), REST, JSON, MongoDB, Postgres, MySQL, AWS Elastic Beanstalk, AWS Lambda, AWS API Gateway
- Frontend development with an emphasis on reusable web components.
 - Polymer, HTML/CSS/Javascript, ES6, Node.js, THREE.js, D3.js, etc.
- Consulting work around the globe to assist other Arup development teams within the company.

Web Developer (pro-bono) | Jacobson Realty Inc | 2017

(jrealty.com) (github.com/lakopite/jri)

- Designed and developed a bespoke website for a real estate agency, including integration with a cloud-based content platform.
- Polymer, Firebase hosting, Chalice (Serverless Python), AWS API Gateway, AWS Lambda, CI/CD (git+AWS Code Build/Code Pipeline), Contentful

Software Engineering Intern | NetApp | Jun 2013 – Aug 2013

- Designed and developed a proof of concept hybrid mobile application for the NetApp Sales team that enabled mobile visibility to live order status.

Software Engineering Intern | LA District Attorney's Office | May 2012 – Aug 2012

- Developed a Splunk-based web application for lawyers/investigators to organize, search, and analyze their forensic evidence, which consisted of large quantities of raw data from various sources.