Gabriel Getzie

CONTACT
INFORMATION

gabe@kotsf.com   Please email for address and phone number

COMPUTER
SOFTWARE

Emacs, Unix/Linux, Windows MS Office, VSCode, git, Postgres, nginx

PROGRAMMING
LANGUAGES

Python, Javascript (jQuery, React), HTML/CSS, SQL, VBA, Bash shell scripting, Lisp

PROFESSIONAL
EXPERIENCE

University of Hong Kong, Hong Kong

Research Assistant - Department of Geography   **July, 2020 – Present**

Developing an interactive visualization of data from the US Patent office and scholarly research papers (via Microsoft Academic Graph). This project involves analyzing and mapping over 160GB of data to investigate geographic relationships among researchers and inventors. The project uses Postgres and Elasticsearch for data-storage and full-text search with visualzation provided via a React frontend.

University of Hong Kong, Hong Kong

Research Assistant - Department of Archaeology   **July, 2020 – Present**

Developing a mobile application to collect research data and photographs from archeaological digs. The app is developed with React Native with a Django Rest Framework backend interacting with a Postgres database.

KotSF, Hong Kong

Founder   **August, 2019 – Present**

Design and develop custom web applications both for clients and as B2C products. Products include No Nonsense Recipes, an ad-free subscription recipe site, developed with Django and Bootstrap. The site is hosted on Amazon Web Services via load balanced EC2 instances with a Postgres RDS database and Cloudfront static file hosting.

Proph-It, Washington, DC

Co-Founder   **October, 2015 – Present**

Design and develop custom software for the MEP Engineering industry. Products under development include:

Prophit   a project fee estimator using machine learning to determine fees for new proposals based on past projects

AEQuotes   an online marketplace and requirements gathering application for architecture and engineering consulting work.

Engenium Group, Washington, DC

Managing Electrical Engineer   **December, 2013 – December, 2019**

Joined as 3rd employee at a fast-growing Mechanical/Electrical/Plumbing Engineering consulting firm. Over 6 years helped grow firm from 3 to 18 employees and from $600k USD to $2.5M USD annual revenue. Managed team of 4 electrical engineers. Managed MEP engineering design projects for commercial office, datacenter, multi-family residential, institutional, and government clients. Performed and oversaw electrical system design including power distribution, lighting control, and fire alarm systems.

GreaterDebater, Greenbelt, MD

Founder   **October, 2008 – January, 2014**

Designed and developed the social news website http://greaterdebater.com using the Django web framework. Responsible for all aspects of implementation from MySQL database to frontend HTML, CSS, and Javascript interface. The site uses the jQuery javascript framework and AJAX where appropriate to provide a modern interactive experience. Currently engaged in evaluating and implementing new features, marketing, and administration.

GHT Limited, Arlington, VA

Senior Electrical Engineer   **August, 2011 – December, 2013**

Designed electrical power distribution for commercial interiors office space and base building modifications. Mentored and directed junior engineering staff. Performed load calculations and short circuit analysis. Performed generator sizing calculations. Designed equipment layouts in accordance with NEC or other applicable codes. Performed lighting calculations. Designed fire alarm system layout. Prepared electrical drawings for permit and construction. Conducted field surveys. Prepared building condition reports and feasibility studies and provide recommendations to clients for future projects.

RTKL Associates, Washington DC

Electrical Designer   **December, 2006 – August, 2011**

Design electrical power distribution for commercial buildings. Perform load calculations and short circuit analysis. Design equipment layouts in accordance with NEC or other applicable codes. Perform lighting calculations. Design fire alarm system layout. Prepare electrical drawings for permit and construction. Extensive use of AutoCAD including extending functionality with AutoLisp. Projects range in size and complexity from tenant fit-out of office space to Tier IV data centers.

BAE Systems, Washington DC

Electrical Engineer   **November, 2005 – December, 2006**

Reviewed and evaluated design drawings and specifications for all new construction and remodeling of existing facilities for Navy customer. Created Facility Design Criteria documents to communicate Navy requirements to Architecture and Engineering firms. Ensured that A/E designs complied with specifications as well as all applicable codes and standards for electrical distribution, grounding, and lightning protection. Performed analytical studies of base low and medium voltage electrical distribution systems. Presented results to internal and external customers.

CERTIFICATIONS   Licensed Professional Engineer, Electrical (PE) - MD, DC, VA, MA
LEED Accredited Professional v2.2 (New Construction)

EDUCATION   **The George Washington University**, Washington DC

Bachelor of Science Electrical Engineering (BSEE)
  • Minor: Mathematics

REFERENCES   Available upon request.