Greg Ziegan

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A software developer with a passion for researching new tech, writing clean, extensible code, and solving problems concerning each stage of the development cycle.

Summary of Qualifications

➢ Expertise in web development, and a solid foundational understanding of MVC design practices.
➢ Experience in writing and maintaining large scale spiders which interact with relational or document based databases to generate a report of a site's contents over time.
➢ Utilizes both functional and object oriented design principles. This pertains to writing in both imperative and functional styles.
➢ Possesses strong analytical skills consistently tested by the difficulty of optimizing web applications and the rapid scaling of previous projects.
➢ Able to work cohesively with a team of software engineers while communicating with clients and/or managerial staff members.

Technical Expertise

Languages:	Python, Java, Javascript, Common Lisp, Objective-C, C, SQL
Frameworks:	Django, Flask, Node.js, iOS Frameworks
APIs:	jQuery, Fabric, python nltk, numerous company-specific APIS
Systems:	OSX, Linux

Professional Experience

Software Developer/Vertical Knowledge (May 2013 — Present):
Chagrin Falls, OH

Wrote spiders on a closed-source framework that uses an anonymization network to fetch large amounts of data from retail, government, and various other sites. Responsible for maintenance of recurring spiders and developing new methods of spidering a website.

● Created a Location comparison system using Django to compare millions of addresses with a multi-threaded algorithm that computes a similarity score based on geographic distance.
● Built a candidate screening tool that allows the company to view an online examination of technical and nontechnical applicants. Custom exams can be uploaded and candidates take the exam via a unique hyperlink. Cheating is monitored by keeping a log of unique IP addresses used to access the exam.
● Constructed a tool to check a massive list of usernames against a potentially large number of websites and determine whether the usernames are valid, invalid, forbidden, etc on each site.
● Research involving a generic business information parser which would potentially parse out relevant information about a business across unknown page formats.

Personal Projects

- BotterDre
  - http://botterdre.com generates randomized lyrics to songs by spidering lyrics.com and using an algorithm to predict a grammar using Python, Django, and MySQL.
- VBJ Exchange
  - http://vbjexchange.com allows users to actively trade and produce virtual items in a fictitious currency exchange market.
- Anovelmous
  - Have begun development on two platform: web & iOS application. It will serve as a collaborative novel determined by the most popular user submitted words.
  - The app utilizes strict grammar rules defined by natural language processing libraries to give the novel better readability.
- Currently writing software in Common Lisp which can simulate the addition of bumps and divots to any regular polygon, and search for possible configurations in which the identical mutant polygons can be placed together in a lattice structure.

Education

Case Western Reserve University, Cleveland, OH
B.S. in Computer Science Candidate
Expected Graduation: December 2015

References

Jon Sustar: former senior software engineer at Vertical Knowledge.
Email: jon.sustar@gmail.com

Chris Fietkiewicz: my current research advisor at Case Western Reserve University
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Ross Salupo: current CTO at Vertical Knowledge.
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