

Dan Chrostowski

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Experienced Full Stack Developer with a demonstrated history of working in the information technology and services industry. Skilled in Python, Javascript, Perl, Java, Git, and SQL. Particularly specializes in web crawling and object oriented design & programming among many other areas. Strongly prefers and is familiar with agile development life cycle and related methodologies. Over 5 years experience as a software engineering professional with a Bachelor of Science (B.S.) focused in Computer Science from Marquette University.

Technical Skills

Likes: python react-native docker javascript perl web-scraping web-crawler linux ubuntu java android git sql amazon-web-services

Experience

Digital Product Engineer – Blue Cross Blue Shield of Minnesota Nov 2017 → Current
react-native, aws-sdk, amazon-s3, aws-lambda, aws-api-gateway, node.js, typescript, rest, api, jest, gulp

- Mobile app development with React-Native
- Design of web APIs through Amazon Web Services (Lambda, API Gateway)
- Mulesoft integration / development

Contract Software Engineer (temp, contract) – Qwil | San Francisco, CA Jul 2017 → Aug 2017
rest, api, django, unit-testing, automated-tests, python, kubernetes, docker, redis, git

Note: This was a temporary 30-day contract position.

- Development of automated, end-to-end unit tests on Qwil's web API
- Implementation of container orchestration utilizing Kubernetes to ensure high availability of web services
- General API development / maintenance primarily with Django REST Framework
- Management of staging and development environments

Software Engineer – Quixey | Mountain View, CA Oct 2016 → Mar 2017
python, web-crawler, linux, distributed-computing, architecture, git, scrapy, node.js, phantomjs, xpath, css-selectors, html, dom, amazon-ec2, frontera

Note: This company is no longer in business.

- Head/lead developer of web crawling team
- Co-architect of company's distributed crawling system/infrastructure
- Highly involved in migrating company's data mining solutions to in-house environment
- Development of new web crawlers / scrapers according to management's specification

Full-Stack Application Developer (remote, part-time) – Noravand | Burbank, CA May 2015 → Nov 2016
php, linux, git, centos, javascript, jquery, model-view-controller, gitlab-omnibus, html, css, amazon-web-services

Note: This was a part-time position which I retained remotely after relocating to the Denver, CO area.

- Development of web applications written in PHP, JavaScript, and jQuery for clients and customers.
- Deployment of web applications on AWS cloud servers
- Use of MVC design framework in implementation.
- Mobile app development for Android and iOS devices using the Apache Cordova framework.
- Solely responsible for maintaining most of company's servers and infrastructure.
- Built our development server from the ground-up, implemented GitLab and Bugzilla among others.

Software Engineer – eGauge Systems LLC | Boulder, CO Jan 2016 → May 2016
python, django, linux, embedded-linux, git, javascript

- Developed and maintained the company's website utilizing the Django web framework
- Front-end development using JavaScript, AngularJS, jQuery, and Bootstrap.
- Assisted with maintaining embedded software on eGauge device.

Software Engineer – Connectivity Inc. | Burbank, CA
perl, moose, web-crawler, node.js, data-mining, web-scraping, git, github, phantomjs, agile, scrum

Oct 2014 → Nov 2015

Note: This company is no longer in business.

- Received formal training in and heavily utilized agile development methodology.
- Writing web crawlers implemented in Perl and its Moose extension.
- Development of desktop utility that interfaces with DIVA video archiving system using its native Java API
- Designing and developing data mining & aggregation systems.
- Work with utilizing and exposing web service clients and web APIs.
- Improved crawling infrastructure capabilities by designing and implementing a new headless browsing module leveraging PhantomJS and Node.JS.

Software Developer – Encompass Digital Media, Inc. | Los Angeles, CA
perl, cgi, jquery, javascript, web, web-services, java, c++, html, css

Jul 2013 → Jul 2014

- Design, development, implementation of automation software solutions
- Desktop and web-based application design and development
- System administration and maintenance

Applications Developer – ACCO Engineered Systems, Inc. | Glendale, CA
extjs, javascript, sql, java, perl, rest, soap

May 2012 → Jul 2013

- Implementation of BIRT automated report system with Java API
- In-house web application design, development, implementation, and maintenance.
- Evaluation and implementation of third party systems.
- Systems administration.

Education

B.S. Computer Science – Marquette University

2007 → 2011

java, big-o, c, unix, operating-system, network-programming, data-structures, algorithm, assembly, database, sql, linux

- Granted a computer science/engineering scholarship by Marquette University.
- Passed and completed courses in object oriented programming, data structures & algorithms, operating systems, networks and internets, and databases.
- Recruited to work on Marquette University's electric vehicle project (eLIMO).
- Proposed and conducted an independent study project with the College of Engineering.
- Competed on Marquette's ACM International Collegiate Programming Contest team.

Projects & Interests

Investing & Programming - A "Quantamental" Approach (Denver, CO)- Meetup – <http://www.meetup.com/Investing-Programming-Quantamental-Approach/>
web-crawler, web-scraping, python, r, perl, linux, rstudio-server, gitlab-ci

While not yet fully defined, the main goal is to leverage different technologies to aid in investment strategies and financial data analysis beyond what is commonly available and accessible to the industry.

My role primarily entails programmatically gathering financial data usually by way of web crawling. The data is then stored into either a MySQL database or MongoDB instance, whichever is appropriate, and used for later analysis and testing.

Apps & Software

Autoproxy (Work in Progress) – <https://streetscrape.com/autoproxy>

python, scrapy, web-crawler, web-scraping, automated-tests, django, mysql, redis, linux, docker, http-proxy, socks, https, http, apache, javascript, headless-browser, nmap, tcp-ip, xpath

A fully automated system that searches for, identifies, validates, and tests public proxy servers suitable for use in web crawling. Read more details at <https://streetscrape.com/autoproxy>

Marquette University eLIMO (2011 team) – <http://muelimo.com/>

java, c, can, serial-port, motor-controller, batterymanager

Conversion of an internal combustion engine van to a fully electric "green" vehicle

- Recruited on to the team for my senior design project
- Worked on the design, development, and implementation of a user interface for the vehicle which displays the speedometer, odometer, and battery gauge
- Later continued the project solo to improve upon my work in my final semester as an independent study for the College of Engineering.

Tools

First Computer: Acer Aspire Laptop

Favorite Editor: atom, vim, eclipse