

# CLAUDIU CREANGA

SOFTWARE ENGINEER

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## ABOUT ME

Personal website: <http://claudiucreanga.github.io/>  
Github: <https://github.com/ClaudiuCreanga>  
Kaggle: <https://www.kaggle.com/claudiucreanga>  
HackerRank: <https://www.hackerrank.com/ClaudiuCreanga>



## WORK EXPERIENCE

### SENIOR SOFTWARE ENGINEER

Illumina, Cambridge, UK - January 2018 - present

- write code that impacts clinicians' decisions regarding patient treatment so we have strong guidelines regarding quality (TDD and SOLID)
- build systems to generate cancer reports (DNA & RNA) out of whole genome sequencing data
- applying machine learning algorithms to improve a variant caller for whole genome sequencing
- design, code, test and maintain high-quality applications in a scrum team setting

### SOFTWARE ENGINEER

Contractor at Inviqa, Black Sun, Tacit Knowledge - Feb 2017 - Dec 2017

- worked on a HR app written with Symfony and tested with PhpSpec and Behat
- built integrations for MVC frameworks like Magento
- write integration automated tests with Selenium

### SENIOR DEVELOPER

Limesharp, London, UK - September 2015 - February 2017

- develop new features for complex ecommerce systems;
- guide the team and review code;
- handle the entire software development life cycle, end to end;
- participate in hiring process and contribute to business's goals and objectives;
- manage security;
- quality control and testing;
- tier three support;

### PHP DEVELOPER

Limesharp, London, UK - September 2014 - September 2015

- develop magento and wordpress modules;
- build websites from start to end;
- improve website performance;
- guide the frontend team

### FRONTEND DEVELOPER

Advance We Are, Milan, Italy - May 2012 - March 2014

- build wordpress themes and plugins for clients;
- develop an intranet system for the company;
- server maintenance;



## PROGRAMMING LANGUAGES

- Python (5+ years) - I code in python every day now and this involves building data pipelines that take DNA data and produce meaningful reports
- PHP (5+ years) - Ecommerce integrations using OOP and PHP7
- Go (1 year) - Built command line tools using REST
- JavaScript (7+ years) - DOM manipulations, AJAX, complex animations and learned TypeScript
- HTML & CSS



## DATA SCIENCE

- Pandas - Used it every day for the last 2 years for data manipulations, creating pipelines and provide reports
- Bokeh  
D3 - Generated many interactive plots for clinical reports straight from python
- Tensorflow  
Scikit-Learn  
Keras - Built neural networks for a variant caller. Obtained good results in predicting error causing variants in G-quadruplets
- BigQuery - Several reports from public dbs on my website



## LIBRARIES AND FRAMEWORKS

- PyTest, Behat, PhpSpec, - I always write unit and integration tests and often use TDD
- PHPUnit
- Magento 1 & 2 - Fluent in modern PHP MVC frameworks
- Symfony - Built 2 websites and complex reporting tools with Django
- Django
- Foundation & Bootstrap - Fluent in CSS preprocessors, BEM and running complex animations in pure CSS
- SASS & LESS



## DevOps & other

- GIT, GITHUB - Use it every day, familiar with git workflows
- Docker, Vagrant - Created docker images and containers
- Nextflow - Data pipeline running docker containers
- Agile, Scrums - Worked in an agile environment
- Google Analytics - Wrote code to send/retrieve data from GA
- JetBrain IDEs - My favorite IDEs: PyCharm, WebStorm etc.



## Bachelor's Degree in Philosophy



## HOBBIES AND ACTIVITIES

-  Cycling
-  Philosophy, literature
-  Table tennis
-  Squash