

Stefan Zhelyazkov

New York, NY

stefan.zhelyazkov@gmail.com | <http://stefanzh.com>

EDUCATION

University of Pennsylvania, Philadelphia, PA Sep 2009 - May 2013
School of Engineering and Applied Science: Bachelor of Science in Engineering Cum Laude
Major: Computer Science **GPA:** 3.52/4.00
First Minor: Science, Technology & Society **Second Minor:** Mathematics

WORK EXPERIENCE

Software Engineer at Honest Buildings April 2016 – March 2018

- Developed most of the first Reporting & Exporting tool - complex and efficient DB queries, in-screen data formatting, coloring, highlighting, filtering, saving, and exporting to Excel.
- Worked on accounting system integrations with third-party software such as Yardi, MRI, and JDE and customers such as ConEd and WeWork.
- Actively contributed to a stronger backend architecture. Initiated and contributed to the separation of the services layer from the endpoints.
- Cleaned up a lot of legacy code, resolved numerous bugs, and helped increase code coverage.
- Helped introduce a Java linter and a stylechecker
- Regularly updated some of our major BE library dependencies and performed code uplifting accordingly
- One of the top contributors of all time to our repo with over 100,000 lines of code in just 2 years.

Technology Analyst for the Credit Risk team at Goldman Sachs July 2013 – March 2016

- Java back-end applications aggregating GB's of data and producing Credit Risk metrics. Worked on the full flow from sourcing, transforming, aggregating, displaying and storing the data. Optimized the legacy codebase. Documented it. Sped up certain processes by up to 14%.
- Adapted several large Java applications (60GB RAM ~ 120GB) to run on a new grid of servers thus helping reduce maintenance costs. This work resulted in annual savings between \$100,000 - \$200,000.
- Actively worked with interns and other junior people. Participated in the recruiting efforts of the company, including the firmwide Hackathon Recruiting Committee for 2015/2016.

BACHELOR THESIS

Reading Music From Images – Senior Design Project Sep 2012 – May 2013

- Worked on an algorithm that analyzes the color properties of images and maps those colors to sounds, which it further connects into playable music. My main focus was the design of the algorithm by researching scientific works on the same topic, analyzing the different approaches and evaluating their strengths and weaknesses. One of the goals achieved was producing a deterministic implementation with no use of randomness.
- The project was featured on the front page of the school newspaper – the Daily Pennsylvanian [on April 15th 2013](#). (this is a rare honor for a student project to be featured on the front page of the DP)

IN ADDITION

- [Completed](#) Martin Odersky's (creator of Scala) [course on Scala](#) with 100% in Spring 2014
- [Completed](#) Stanford's [Algorithms: Design and Analysis Part 1](#) with 94% in Fall 2014
- [Completed](#) Stanford's [Algorithms: Design and Analysis Part 2](#) with 85.3% in Spring 2015
- Solved [92 Project Euler problems](#) (Level 3). Top 1.606% of more than 790 000 registered users with at least 1 solved problem.

PROGRAMMING LANGUAGES

Java (7+ yrs), JavaScript/AngularJS (3+ yrs), PHP, Scala, Haskell, OCaml and others.