

# Severyn Kozak

347.882.1722 • sev@mit.edu • sevko.io • [linkedin.com/in/sevko](https://www.linkedin.com/in/sevko)  
[github.com/sevko](https://github.com/sevko)

## SKILLS

---

**Languages:** Python, C, Java, Javascript, Haskell

**Tools:** Linux, Git, Nginx, PostgreSQL, Elasticsearch, MongoDB, Flask, Jekyll, Node.js, AWS

**Skills:** web, GIS, compilers, performance testing, security, graphics

## EXPERIENCE

---

**Software Engineering Intern at [Cryptosense](#)** 06/2017 - 08/2017

Worked on software that automatically identifies cryptographic vulnerabilities in Java software.

- automated our product for CI integration: wrote a backend API and Java client library, plugins for Gradle and Jenkins, and helped make a demo video for clients
- researched how to globally map Java crypto provider versions to the documented vulnerabilities that affect them, using OpenJDK security reports, CVE databases, and automated vulnerability tests

**Software Engineering Intern at [MongoDB](#)** 06/2016 - 08/2016

Worked on performance regression testing at MongoDB.

- focused on test analysis, which consumes the diagnostic data produced by performance tests and tries to identify performance regressions based on throughput over time, resource usage, logs, etc.
- improved our analysis logic, making it flag errors more intelligently and digest more diagnostic data
- added linting, testing, and helpful tooling to our Python codebase

**Software Engineering Intern at [Mapzen](#)** 07/2014 - 06/2015

Interned at Mapzen, an open-source and open-data geographic software startup, during my gap year.

- developed our Node.js/Elasticsearch-based geocoder, [Pelias](#)
- reduced data build times from days to hours, improved geo-hierarchies, added new datasets, etc.
- managed regular deployments in multiple environments and follow-up testing/QA
- worked on our high-volume map [vector tile service](#)'s PostgreSQL, Python, and AWS infrastructure
- worked with huge geographic datasets like OpenStreetMap, OpenAddresses, and GeoNames

**Programming Mentor/TA at [CSTUY](#)** 10/2013 - 05/2014

- mentored 25 high school students at weekly, three-hour programming sessions
- helped teach Python, databases, simple web-dev, and basic computer science

## EDUCATION

---

**MIT** *B.S. in Computer Science* 2015-'19

**Stuyvesant High School** 2010-'14

## PROJECTS

---

**portfolio:** a collection of all my personal work. [github.com/sevko/portfolio](https://github.com/sevko/portfolio)