

# Vitali Shypko

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Computer Science student with 3 years of startup experience looking for a full-time software development role

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## Education

### University of California, Berkeley

Jun 2017 — May 2019

#### Bachelor of Arts, Computer Science

- Data Structures
- Efficient Algorithms and Intractable Problems
- Computer Architecture
- Artificial Intelligence
- Computer Security
- Structure and Interpretation of Computer Programs
- Internet: Architecture and Protocols
- Principles and Techniques of Data Science
- Discrete Mathematics and Probability Theory
- Blockchain for Developers

### City College of San Francisco

Aug 2014 — May 2017

#### Computer Science

- Data Structures and Algorithms: Java
- Interactive Web Pages – JavaScript
- Unix/Linux Shell Scripting
- Advanced HTML and CSS
- Discrete Mathematics
- Linear Algebra and Differential Equations

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## Professional Experience

### UC Berkeley Computer Science Department

Jun 2018 — Aug 2018

#### Academic Intern

Berkeley, CA

- Helped teaching assistants to lead daily labs by grading quizzes, providing direct feedback to students and explaining new concepts in a Data Structures class

### STRATIM

Jan 2017 — Jul 2017

#### Quality Assurance Engineer (full-time)

San Francisco, CA

- Developed automated test cases in Python using Selenium that led to increase of code base test coverage by 16%
- Improved the company's test automation framework by adding valuable functions and decreasing the likelihood of false-positive results
- Optimized automated smoke-test suite to perform fast and reliable testing on each code change that resulted in 10% decrease in its run time allowing for faster feature releases

### ZIRX / STRATIM

Apr 2016 — Dec 2016

#### Quality Assurance Associate (full-time)

San Francisco, CA

- Performed functional, integration, and regression testing for the web and mobile platform projects to ensure proper software development cycle
- Analyzed feedback from Product and Operations teams as well as end customers to understand main use cases and develop comprehensive test suite according to their needs
- Added relevant seed data using SQL to ensure that test machines run on the configuration analogous to production

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## Projects

### Gitlet Version-Control System (Java)

- Designed backend in Java for a git-like version-control system that supports 18 most-used both local and remote git commands

### Qirkat Board Game (Java)

- Developed a two-player strategy board checkers-like game with implementation of the minimax algorithm for AI to allow a single-player mode

### Database Management System (Java)

- Implemented a relational database management system that allows storing and extracting of data and supports most commonly-used SQL commands

### Scheme Interpreter (Python)

- Designed an interpreter for a subset of the Scheme language in Python

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## Skills

- Languages/Frameworks: Java, Python, SQL, Pandas, R, HTML, CSS, Selenium, JUnit, Solidity, Bash
- Tools: Git, IntelliJ IDEA, JIRA, iTerm, Sublime Text, Vim, Xcode