Julian Rosenblum

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Employment

- ❖ Square, Inc. – Software Engineering Intern (Summer, 2016)
- ❖ MongoDB, Inc. – Software Engineering Intern (Summer, 2015)
- ❖ KeyMe, Inc. – Software Engineering Intern (Summer, 2014)
- ❖ Columbia University (work done while in high school)
  - o TA for COMS W4115 Programming Languages and Translators (Fall, 2013)
  - o Graduate-level research, optimizing memory management of Haskell lists (2013-2014)

Selected Programming Projects

- ❖ **SHARP11**
  - o Music theorization and improvisation engine + web front end (JavaScript, React)
  - o Analyzes chords, creates scales, generates jazz improvisations, produces MIDI output

- ❖ **MARKATO**
  - o Markup language for lyrics and chords + online songwriting tool (Javascript, React)

- ❖ **FLYTRAP** *(internship project at MongoDB)*
  - o Server to collect, process, and display crash reports produced by Google Breakpad
  - o node.js, Express, Mocha, Jade, MongoDB, Bootstrap, AWS (Elastic Beanstalk, Lambda)

- ❖ **MONQUEY**
  - o The No}}}); MongoDB Shell Syntax (compiler written in Haskell)
  - o A custom designed, easier to read syntax for the MongoDB shell, transpiles to JavaScript

- ❖ **freshSTART**
  - o Anonymous social-networking site for my high school (node.js, Express, MySQL)
  - o Over 500 registered users, over 150,000 messages sent

- ❖ **TETREWELED**
  - o Original game combining elements from Tetris and Bejeweled (HTML5)

- ❖ **REALLY AWESOME DATA LANGUAGE (RADL)**
  - o Data storage language combining JSON and XML features, translators written in Python

Programming Languages

JavaScript, Python, HTML/CSS, PHP, SQL, C, Haskell, OCaml, Ruby, Java

Education

- ❖ Yale University, Class of 2018 – 3.95 GPA
- ❖ Hunter College High School, Class of 2014 – Computer Science Award